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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

JANUARY, 1930

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A copy of any of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

✉ Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Growing fruit for home use in the Great Plains area. H. P. Gould, Office of Horticultural Investigations, and Oliver J. Grace, superintendent, United States Dry-Land Field Station, Akron, Colo. 34 p., figs. 25. (Farmers' Bulletin 727 F., Rev.) Price, 5¢.

Castrating and docking lambs. G. H. Bedell, Bureau of Animal Industry, and E. W. Baker, Bureau of Agricultural Economics. 12 p., figs. 9. (Farmers' Bulletin 1134 F., Rev.) Price, 5¢.

Sheep-killing dogs. V. L. Simmons, Bureau of Animal Industry. 33 p. (Farmers' Bulletin 1268 F., Rev.) Price, 5¢.

Herbaceous perennials. Furman Lloyd Mulford, Bureau of Plant Industry. 85 p., figs. 66. (Farmers' Bulletin 1381 F., Rev.) Price, 15¢.

Oats in the western half of the United States. T. R. Stanton and F. A. Coffman, Bureau of Plant Industry. 22 p., figs. 11. (Farmers' Bulletin 1611 F.) Price, 5¢.

Propagation of aquatic game birds. W. L. McAtee, Bureau of Biological Survey. 41 p., figs. 25. (Farmers' Bulletin 1612 F.) Price, 10¢.

Propagation of upland game birds. W. L. McAtee, Bureau of Biological Survey. 61 p., figs. 35. (Farmers' Bulletin 1613 F.) Price, 10¢.

Business records for poultry keepers. E. R. Johnson, Bureau of Agricultural Economics, and A. R. Lee, Bureau of Animal Industry. 20 p. (Farmers' Bulletin 1614 F.) Price, 5¢.

Soybean utilization. W. J. Morse, Bureau of Plant Industry. 28 p., figs. 11. (Farmers' Bulletin 1617 F.) Price, 5¢.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Stock-poisoning plants of the range. C. D. Marsh, Bureau of Animal Industry. 75 p., figs. 33, pls. 50. (Department Bulletin 1245-D., Rev.) Price, 35¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Flow of water in drainage channels: The results of experiments to determine the roughness coefficient n in Kutter's formula. C. E. Ramser, Bureau of Public Roads. 102 p., figs. 20, pls. 31. (Technical Bulletin 129 T.) Price, 40¢.

Properties of western hemlock and their relation to uses of the wood. R. P. A. Johnson, Forest Products Laboratory, Madison, Wis., and W. H. Gibbons, Forest Service. 62 p., figs. 21, pls. 11. (Technical Bulletin 139 T.) Price, 20¢.

The habits and economic importance of alligators. Remington Kellogg, formerly of Bureau of Biological Survey. 36 p., figs. 2, pls. 2. (Technical Bulletin 147 T.) Price, 10¢.

The frozen-pack method of preserving berries in the Pacific Northwest. H. C. Diehl and J. R. Magness, Bureau of Plant Industry; C. R. Gross and V. B. Bonney, Food, Drug, and Insecticide Administration. 38 p., figs. 15. (Technical Bulletin 148 T.) Price, 10¢.

Fungous diseases of the honeybee. C. E. Burnside, Bureau of Entomology. 43 p., figs. 5, pls. 6. (Technical Bulletin 149 T.) Price, 15¢.

Vegetable propagation from the standpoint of plant anatomy. J. H. Priestley, Professor of Botany, University of Leeds, England, and Charles F. Swingle, Bureau of Plant Industry. 99 p., pls. 24. (Technical Bulletin 151 T.) Price, 35¢.

Effect of milk-plant arrangement and methods of operation on labor requirements. C. E. Clement, P. E. Le Fevre, J. B. Bain, and F. M. Grant, Bureau of Dairy Industry. 40 p., figs. 21. (Technical Bulletin 153 T.) Price, 15¢.

Quaking aspen: A study in applied forest pathology. E. P. Meinecke, Bureau of Plant Industry. 34 p., figs. 5, pls. 2. (Technical Bulletin 155 T.) Price, 10¢.

Investigations in weed control by zinc sulphate and other chemicals at the Savenac forest nursery. W. G. Wahlenberg, Forest Service. 36 p., figs. 3, pls. 7. (Technical Bulletin 156 T.) Price, 15¢.

The western grass-stem sawfly a pest of small grains. C. N. Ainslie, Bureau of Entomology. 24 p., figs. 16. (Technical Bulletin 157 T.) Price, 5¢.

Life history, habits, and control of the Mormon cricket. Frank T. Cowan, Bureau of Entomology. 28 p., figs. 24. (Technical Bulletin 161 T.) Price, 10¢.

The wearing quality and other properties of vegetable-tanned and of chrome-retanned sole leather. R. W. Frey and I. D. Clarke, Bureau of Chemistry and Soils. 18 p., figs. 2. (Technical Bulletin 169 T.) Price, 5¢.

A pipette method of mechanical analysis of soils based on improved dispersion procedure. L. B. Olmstead, Lyle T. Alexander, and H. E. Middleton, Bureau of Chemistry and Soils. 23 p., figs. 2. (Technical Bulletin 170 T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

A business analysis of the Producers Live Stock Commission Association of National Stock Yards, Ill. Kelsey B. Gardner, Bureau of Agricultural Economics. 45 p., figs. 10. (Circular 86 C.) Price, 10¢.

Forest nursery and planting practice in the California pine region. S. B. Show, Forest Service. 75 p., figs. 17. (Circular 92 C.) Price, 15¢.

Subsoil an important factor in the growth of apple trees in the Ozarks. A. T. Sweet, Bureau of Chemistry and Soils. 12 p., fig. 1, pls. 5. (Circular 95 C.) Price, 10¢.

Equipment for city milk plants. C. E. Clement and F. M. Grant, Bureau of Dairy Industry. 36 p., figs. 18. (Circular 99 C.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Pocket guide to Alaska trees. Raymond F. Taylor, Forest Service. 39 p., illus., 1 map. (Miscellaneous Publication 55 M.) Price, 15¢.

Bibliography on the relation of clothing to health. Ruth O'Brien, Esther C. Peterson, and Ruby K. Worner, Bureau of Home Economics. 146 p. (Miscellaneous Publication 62 M.) Price, 25¢.

Economic benefits of eradicating tuberculosis from livestock. John R. Mohler, A. E. Wight, and L. B. Ernest, Bureau of Animal Industry. 24 p., figs. 8. (Miscellaneous Publication 66 M.) Price, 5¢.

Construction of a sled-type cornstalk shaver. Frank Irons, Bureau of Public Roads. 10 p., figs. 22. (Miscellaneous Publication 69 M.) Price, 5¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1926 and 1927. Prepared by the Bureau of Agricultural Economics. 156 p. (Statistical Bulletin 27 S.) Price, 25¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

California, The Salinas Area. Price, 35¢.

North Carolina, Wilson County. Price, 20¢.

South Dakota, Moody County. Price, 15¢.

Texas, Hidalgo County. Price, 25¢.

Texas, Willacy County. Price, 20¢.

West Virginia, Monroe County. Price, 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Proceedings of International Universal Cotton Standards Conference of 1929 and items relating to the administration of the United States cotton futures and cotton standards acts. Bureau of Agricultural Economics, Service and Regulatory Announcements No. 117. 23 p. (S. R. A., B. A. E., No. 117.)

To prevent the spread of scabies in sheep.—Releasing from quarantine Sonoma and Mendocino Counties, Calif. B. A. I. Order 303, Amdt. 2. 1 p.

Service and Regulatory Announcements, Bureau of Animal Industry, December, 1929. No. 272. pp. 107–114. (S. R. A.—B. A. I. 272.) Price, 5¢.

Index to Notices of Judgment 15001 to 16000. [Compiled by the Food, Drug, and Insecticide Administration.] pp. 533–542. Price, 5¢.

European Corn-borer quarantine. Quarantine No. 43. Revision of regulations. Plant Quarantine and Control Administration. 8 p. (P. Q. C. A.—Q. 43.)

Pink-bollworm quarantine No. 52. Revision of Regulations. 6 p. (P. Q. C. A.—Q. 52.)

Service and Regulatory Announcements, Plant Quarantine and Control Administration, April–June, 1929. pp. 49–130. (S. R. A.—P. Q. C. A. No. 99.) Price, 15¢.

Service and Regulatory Anouncements, Plant Quarantine and Control Administration, July–September, 1929. Service and Regulatory Announcements No. 100. pp. 131–179. (S. R. A.—P. Q. C. A. 100.) Price, 10¢.

OTHER PUBLICATIONS

Report of the Chief of the Weather Bureau, 1928–29. C. F. Marvin. 250 p. Price, \$1.00.

Report of the Porto Rico Agricultural Experiment Station, 1928. 38 p., figs. 9. Price, 10¢.

Utilization and composition of Oriental vegetables in Hawaii. H. L. Chung and J. C. Ripperton. 64 p., figs. 52. (Hawaii Bulletin 60.) Price, 35¢.

DEPARTMENT BULLETINS

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PERIODICALS

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Agricultural situation. Vol. 14, No. 1. January 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 16, No. 9, September; No. 10, October, 1929.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 6, No. 12. December, 1929; Vol. 7, No. 1. January, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, condition and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily Weather Maps. Limited editions. Not for general distribution.

Edition 1 contains forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Editions issued at Washington, D. C., are 25¢ a month, \$2.50 a year. Edition 2 contains forecasts for the entire United States; 30¢ a month, \$3 a year. Neither edition furnished in quantities unless the order is placed with the Superintendent of Documents, in advance of issue. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹

Experiment Station Record. Vol. 61, No. 8. December, 1929; No. 9, December Abstract Number; Vol. 62, No. 1. January, 1930. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Forest Worker. Vol. 5, No. 6. November, 1929. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of Agricultural Research. Vol. 40, No. 1. January, 1930. Illus. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign. Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

Monthly Weather Review. Vol. 57, No. 10. October, 1929. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign. Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The Official Record. Vol. 9, Nos. 1-5. January 2, 9, 16, 23, 30, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Public Roads. Vol. 10. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year foreign.¹

No. 11. *Contents:* Bituminous surface treatment of sand-lay and topsoil roads.

Snow and Ice Bulletin. Nos. 3-7. January 2, 8, 15, 22, 29, 1930. 1 p., map. 50¢ a year. Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weekly Bureau and selected cooperative stations. As far as practicable all reports of snow and ice are given.

Weather outlook. Limited edition. Not for general distribution.

Prepared at and distributed from the following forecast centers of the Weather Bureau: Washington, D. C., New Orleans, La., Chicago, Ill., Denver, Colo., and San Francisco, Calif.

Weekly weather and crop bulletin. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

House ants: Kinds and methods of control. C. L. Marlatt, Bureau of Entomology. 15 p., figs. 5. (Farmers' Bulletin 740 F., revised.) Price, 5¢.

Discusses the biology and control of the more common ant pests of houses and lawns. Among the control measures is the formula for poisoned bait containing thallium sulphate, which is of special interest.

Pit silos. T. Pryse Metcalfe and George A. Scott, Bureau of Animal Industry. 8 p., figs. 4. (Farmers' Bulletin 825 F., revised.) Price, 5¢.

The construction of pit silos is recommended only where a combination of soil and climatic conditions exists, such as is found in the Southwest. This bulletin is intended for distribution in sections where building materials are scarce and high priced.

Dourine of horses. John R. Mohler and H. W. Schoening, Bureau of Animal Industry. 10 p., figs. 5. (Farmers' Bulletin 1146 F., revised.) Price, 5¢.

Describes in detail the cause, symptoms, and transmission of the disease, together with its course and outcome. Little benefit can be obtained from medicinal treatment. Sanitary measures for the eradication of dourine are suggested.

Control of insect pests in stored grain. E. A. Back and R. T. Cotton, Bureau of Entomology. 30 p., figs. 34. (Farmers' Bulletin 1483 F., revised.) Price, 10¢.

Acquaints the farmer or grain dealer with the characteristics of each of a number of fumigants, so that he can select the one best suited to the particular conditions. It shows how the fumigation problem is being solved in the farmer's bin or granary, in the box car or ship's hold, and in the elevator.

Feeding chickens. M. A. Jull and A. R. Lee, Bureau of Animal Industry. 22 p., figs. 8. (Farmers' Bulletin 1541 F., revised.) Price, 5¢.

Feed is the most important cost factor in raising poultry. Therefore the selection of feeds and the method of feeding are very important matters. This bulletin discusses the relative value of the different nutrients and outlines methods of feeding chickens for different purposes.

Sorgo for sirup production: Culture, harvesting, and handling. H. B. Cowgill, Bureau of Plant Industry. 38 p., figs. 12. (Farmers' Bulletin 1619 F.) Price, 10¢.

Contains a discussion of the utilization of by-products, and a description of the diseases and insect pests liable to attack sorgo, together with suggested methods for their control. Intended primarily for sorgo growers and sorgo-sirup producers.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Fires on farms. Harry E. Roethe, Bureau of Chemistry and Soils. 5 p., figs. 5. (Leaflet 44 L.) Price, 5¢.

Enumerates the principal causes of farm fires and outlines practical methods to prevent them. These fires are held responsible for more than two-thirds of the estimated annual loss of \$150,000,000.

Small trees wasteful to cut for saw timber. W. W. Ashe, Forest Service. 5 p., figs. 2. (Leaflet 55 L.) Price, 5¢.

Contains information obtained by studying the logs handled in a regular logging operation and combining figures for enough logs in each case to represent a tree. By timing the different steps from felling the trees to sawing the logs into lumber, it was found that far more time is required to handle enough small logs than to handle a sufficient number of large logs to produce the same quantity.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Chemistry and analysis of the permitted coal-tar food dyes Ponceau SX, sunset yellow FCF, and brilliant blue FCF. O. L. Evenson and H. T. Herrick, Food, Drug, and Insecticide Administration. 8 p. (Department Bulletin 1390 D., Supplement 1.) Price, 5¢.

These three colors have been approved and added to the list of permitted coal-tar food colors since December, 1927. The chemistry and analytical methods for these new dyes, as well as a revised method for lead, are contained in this publication.

DEPARTMENT CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Department Bulletin series.

Federal legislation, regulations, and rulings affecting land-grant colleges and experiment stations. Compiled in the Office of Experiment Stations and the Office of Cooperative Extension Work. 60 p. (Department Circular 251 C., revised.) Price, 10¢.

How to conduct milk and cream contests. Ernest Kelly and R. J. Posson. Revised by C. J. Babcock and C. S. Leete, Bureau of Dairy Industry. 22 p., figs. 5. (Department Circular 384 C, revised.) Price, 5¢.

These contests may be classified as (1) those in which the samples are submitted voluntarily, and (2) surprise contests in which samples are unexpectedly collected from the distributor or producer. This bulletin tells how samples should be prepared, packed, shipped, and handled at destination. It also describes the various methods of analyzing and testing the samples.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Flax cropping in mixture with wheat, oats, and barley. A. C. Arny, Minnesota Agricultural Experiment Station; T. E. Stoa, North Dakota Agricultural Experiment Station; Clyde McKee, Montana Agricultural Experiment Station; and A. C. Dillman, Bureau of Plant Industry. 47 p., figs. 10. (Technical Bulletin 133 T.) Price, 10¢.

Reports experiments conducted over a wide area during a period of four or more years, and the results indicate to what extent and in what areas this mixed cropping is likely to be successful.

Field studies on the rust resistance of oat varieties. M. N. Levine, E. C. Stakman, and T. R. Stanton, Bureau of Plant Industry. 36 p., figs. 4. (Technical Bulletin 143 T.) Price, 10¢.

In the Southern States the two rusts of oats develop independently of their alternate hosts and the production of rust-resistant varieties assumes paramount importance. In the North, the barberry eradication campaign is far from completion and there is no organized attempt to eradicate buckthorns. Hence the importance of breeding rust-resistant varieties for Northern States also.

The flow of water in riveted steel and analogous pipes. Fred C. Scobey, Bureau of Public Roads. 136 p., figs. 10, pls. 6. (Technical Bulletin 150 T.) Price, 30¢.

Gives the results of 98 tests made by the author on 29 riveted steel pipes ranging in diameter from 4 to 168 inches; also 1,080 tests made by other engineers on 169 reaches of pipe. Of interest chiefly to hydraulic engineers and other officials designing and operating metal pipe lines (except cast iron) used for irrigation, power, and other purposes.

Selective logging in the northern hardwoods of the Lake States. Raphael Zon and R. D. Garver, Forest Service. 47 p., figs. 5. (Technical Bulletin 164 T.) Price, 10¢.

Presents the comparative results of selective and clear cutting on typical lumber operations in the northern hardwood type of timber in the Lake States. Of interest to timberland owners not only in these particular forests but in other hardwood regions as well.

The kiln drying of southern yellow pine lumber. L. V. Teesdale, Forest Service. 67 p., figs. 9, pls. 9. (Technical Bulletin 165 T.) Price, 20¢.

Shows (1) how to control drying conditions in the kiln, (2) the proper method of handling stock before and after kiln drying, and (3) how observance of proper kiln operation and handling methods is economically advantageous.

The application of silviculture in controlling the specific gravity of wood. Benson H. Paul, Forest Service. 20 p., fig. 1, pls. 12. (Technical Bulletin 168 T.) Price, 15¢.

Gives the results of silvicultural studies which show that the specific gravity of the woods studied may be modified by controlling local factors which affect the growth either of forest stands or of individual forest trees, so that it becomes possible, within natural limits, to regulate the specific gravity of wood according to the particular use in view.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The Wonderful variety of pomegranate: Composition, commercial maturity, and by-products. E. M. Chace, C. G. Church, and H. D. Poore, Bureau of Chemistry and Soils. 16 p., fig. 1. (Circular 98 C.) Price, 5¢.

This variety brought such highly satisfactory returns to the growers that supply of fruit has outgrown demand, with the usual disastrous effect on price. To correct market conditions, growers have adopted standards regulating quality and maturity of fruit offered for shipment and are attempting to regulate distribution.

The normal breeding season and gestation period of martens. Frank G. Ashbrook and Karl B. Hanson, Bureau of Biological Survey. 7 p. (Circular 107 C.) Price, 5¢.

Describes the breeding experiments with martens conducted by the Biological Survey since 1913. Brief accounts are given of research in other countries.

Parasitism of the Mediterranean fruit fly in Hawaii, 1922-1924. H. F. Willard, Plant Quarantine and Control Administration, and T. L. Bissell, Bureau of Entomology. 12 p. (Circular 109 C.) Price, 5¢.

The use of introduced insect parasites has been found a more promising control measure under the peculiar horticultural conditions of Hawaii than are the artificial control methods of spraying and the destruction of infested fruits employed in commercial fruit-growing areas in certain other parts of the world.

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Forest plantations at Biltmore, North Carolina. Ferdinand W. Haasis, Forest Service. 30 p., fig. 1, pls. 11. (Miscellaneous Publication M. 61.) Price, 15¢.

Gives the history and a statistical summary of the plantations, planting costs, results with species planted, discussion of factors affecting success and of thinning operations, and some comment on the work as a guide to future planting.

Directory of field activities of the Bureau of Plant Industry. 108 p., fig. 1. (Miscellaneous Publication 64 M.) Price, 15¢.

A list of the locations where the bureau carries on experimental activities, together with a description of those activities, names of persons in charge, and directions for reaching each place. Of particular interest to department employees and cooperating individuals and agencies.

List of Bulletins of the Agricultural Experiment Stations for the calendar years 1927 and 1928. Catherine E. Pennington, Office of Experiment Stations. 78 p. (Miscellaneous Publication 65 M.) Price, 15¢.

The bulletins are listed numerically under the stations, which are in alphabetical arrangement. An index of authors and one of subjects are included. This publication is a continuation of Department Bulletin 1199 and its three supplements.

The 1929 outbreak of foot-and-mouth disease in southern California. John R. Mohler and Rudolph Snyder, Bureau of Animal Industry. 16 p., figs. 10. (Miscellaneous Publication 68 M.) Price, 5¢.

Describes in detail this outbreak and the steps taken to eradicate the disease. The successful outcome was due to early discovery; assistance by local agencies; favorable attitude of the people; and assistance of the press in withholding sensational articles.

The agricultural outlook for 1930. Prepared by the staff of the Bureau of Agricultural Economics, assisted by representatives of the Agricultural Colleges and Extension Services and the Federal Farm Board. 64 p. (Miscellaneous Publication 73 M.) Price, 10¢.

Assembles the world-wide and nation-wide supply, demand, and price facts, which are not readily available to farmers. Shows as nearly as possible the probable trend of conditions toward the time when the products of the next season's operations will be marketed.

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These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

California, the Oroville area. Price, 25¢.

Iowa, Carroll County. Price, 15¢.

Iowa, Chickasaw County. Price, 15¢.

Nebraska, Nuckolls County. Price, 20¢.

South Dakota, Hyde County. Price, 20¢.

Wisconsin, Calumet County. Price, 25¢.

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Regulations for warehousemen storing nuts. 21 p. (S. R. A., B. A. E. 119.) Price, 5¢.

Regulations governing the preparation, sale, barter, exchange, shipment, and importation of viruses, serums, toxins, and analogous products intended for use in the treatment of domestic animals. Effective on and after April 1, 1930.) Bureau of Animal Industry, 1 p. (Amendment 6 to B. A. I. Order 276.)

Index to Service and Regulatory Announcements, Bureau of Animal Industry, 1929. pp. 115-117. Price, 5¢.

Information, instructions, rulings, etc., for January, concerning the work of the Bureau of Animal Industry. 8 p. (S. R. A., B. A. I. 273.) Price, 5¢.

Notices of Judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. N. J., F. D. 16551-16575, pp. 357-379; 16576-16600, pp. 381-398.

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In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Daily Weather Maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$2.50 a year; daily, including Sundays and holidays, 30¢ a month, \$3 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$6.65 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹

Journal of Agricultural Research. Vol. 40, No. 2. January 15, 1930; No. 3, February 1, 1930. Illus. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

Monthly Weather Review. Vol. 57, No. 11. November, 1929. Illus. Price 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The Official Record. Vol. 8, Index: Vol. 9, Nos. 6-9. February 6, 13, 20, 27, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Public Roads. Vol. 10. Price 10¢ a copy; \$1 a year domestic; \$1.50 a year foreign.¹

No. 12, February, 1930. Illus. *Contents:* (1) The Arlington curing experiments. (2) Need for simplification of sizes in sand and gravel industry.

Snow and Ice Bulletin. Nos. 8-12. February 5, 12, 19, 26, 1930. 1 p., map. 50¢ a year.¹ Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular weekly Bureau and selected cooperative stations. As far as practicable all reports of snow and ice are given.

Weekly weather and crop bulletin. Nos. 5-8. February 4, 11, 18, 25, 1930. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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APR 21 1930

United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

MARCH, 1930

Send no remittances to the U. S. Department of Agriculture

A copy of any of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Breeds of beef cattle. E. W. Sheets, Bureau of Animal Industry. Revised by W. H. Black. 26 p., figs. 18. (Farmers' Bulletin 612 F., Revised.) Price, 5¢.

Breeds of swine. E. Z. Russell, Bureau of Animal Industry. 18 p., figs. 18. (Farmers' Bulletin 1263 F., Revised.) Price, 5¢.

Dairy cattle breeds. Amer B. Nystrom, Bureau of Dairy Industry. 30 p., figs. 23. (Farmers' Bulletin 1443 F., Revised.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Comparative strength properties of woods grown in the United States. L. J. Markwardt, Forest Service. 39 p. (Technical Bulletin 158 T.) Price, 10¢.

Agricultural survey of Europe: Hungary. Louis G. Michael, Bureau of Agricultural Economics. 104 p., figs. 7. (Technical Bulletin 160 T.) Price, 20¢.

Inheritance of composition of Washington Navel oranges of various strains propagated as bud variants. E. M. Chace and C. G. Church, Bureau of Chemistry and Soils. 23 p. (Technical Bulletin 163 T.) Price, 5¢.

Tests of large timber columns and presentation of the Forest Products Laboratory column formula. J. A. Newlin and J. M. Gahagan, Forest Service. 44 p., figs. 7, pls. 4. (Technical Bulletin 167 T.) Price 15¢.

Taxation of farm property. Whitney Coombs, Bureau of Agricultural Economics. 75 p., figs. 15. (Technical Bulletin 172 T.) Price, 15¢.

The bluegrass webworm. George G. Ainslie, Bureau of Entomology. 26 p., figs. 4. (Technical Bulletin 173 T.) Price, 10¢.

Properties of soils which influence soil erosion. H. E. Middleton, Bureau of Chemistry and Soils. 16 p. (Technical Bulletin 178 T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The production of lily bulbs. David Griffiths, Bureau of Plant Industry. 56 p., figs. 44. (Circular 102 C.) Price, 20¢.

Johne's disease (paratuberculosis) of livestock. Elmer Lash and William M. Mohler, Bureau of Animal Industry. 8 p., figs. 2. (Circular 104 C.) Price, 5¢.

Tree hoppers and their control in the orchards of the Pacific Northwest. M. A. Yothers, Bureau of Entomology. 15 p., figs. 9. (Circular 106 C.) Price, 5¢.

Foaming of milk and cream. C. S. Leete, Bureau of Dairy Industry. 7 p., figs. 2. (Circular 108 C.) Price, 5¢.

Specific gravity and Baumé gravity tables for turpentine. W. C. Smith and F. P. Veitch, Bureau of Chemistry and Soils. 10 p. (Circular 110 C.) Price, 5¢.

DEPARTMENT CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Department Bulletin series.

The domestic oil burner. Arthur H. Senner, Bureau of Public Roads. 29 p., figs. 23. (Department Circular 405 DC., Revised.) Price, 10¢.

MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the department. The series closed with No. 110 and is replaced by the Miscellaneous Publications series.

State sanitary requirements governing admission of livestock. Compiled by the Bureau of Animal Industry from reports of accredited officials of each State. 108 p. (Miscellaneous Circular 14 MC., Revised.) Price, 15¢.

The cow tester's handbook. J. C. McDowell. Revised by J. E. Dorman and J. B. Parker, Bureau of Dairy Industry. 20 p., figs. 7. (Miscellaneous Circular 26 MC., Revised.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations. Mary A. Agnew, Office of Experiment Stations. 127 p. (Miscellaneous Publication 67 MP.) Price, 20¢.

Glossary of terms used in fire control. Prepared by Forest Service. 22 p. (Miscellaneous Publication 70 MP.) Price, 10¢.

Lantern slides and film strips of the United States Department of Agriculture. Prepared by the Office of Cooperative Extension Work, Extension Service. 14 p. (Miscellaneous Publication 72 MP.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

Georgia, Wayne County. 25¢.

Massachusetts, Essex County. 30¢.

North Carolina, Nash County. 15¢.

North Carolina, Rockingham County. 20¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Corn statistics, year ended December 31, 1928, with comparable data for earlier years. Prepared by the Division of Statistical and Historical Research, Bureau of Agricultural Economics. 140 p. (Statistical Bulletin 28 S.) Price, 25¢.

Statistics of oats, barley, and grain sorghums, year ended December 31, 1928, with comparable data for earlier years. Prepared by the Division of Statistical and Historical Research, Bureau of Agricultural Economics. 156 p. (Statistical Bulletin 29 S.) Price, 25¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. pp. 9-18. February, 1930. (S. R. A.—B. A. I. 274.) Price, 5¢.

Notices of Judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. N. J., F. D. 16526-16550, pp. 339-356, March, 1930; N. J., F. D. 16601-16625, pp. 399-412, [March], 1930; N. J., F. D. 16626-16650, pp. 413-427, March, 1930; N. J., F. D. 16651-16675, pp. 429-440, March, 1930.

Notices of Judgment under the insecticide act. Compiled by the Food, Drug, and Insecticide Administration. N. J., I. F. 1166-1175; pp. 55-63. March, 1930.

Notice of lifting of Asiatic beetle and Asiatic garden beetle quarantine. 1 p. (PQCA.—Lifting Q. 66.) Effective March 1, 1930.

OTHER PUBLICATIONS

Citrus culture in Porto Rico. Henry C. Henricksen. 34 p., figs. 16. (Porto Rico Bulletin 33.) Price, 10¢.

Plant material introduced by the Office of Foreign Plant Introduction, Bureau of Plant Industry, July 1 to September 30, 1928 (Nos. 77261 to 77595). 20 p. (Inventory No. 96.) Price, 5¢.

Report of the Guam Agricultural Experiment Station, 1928. C. W. Edwards and others. 31 p., figs. 7. Price, 10¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 3. March 1, 1930. Price 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 16, No. 12. December, 1929.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 7, No. 2, February; Vol. 7, No. 3, March, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, condition and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily Weather Maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$2.50 a year; daily, including Sundays and holidays, 30¢ a month, \$3 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$6.65 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹

Experiment Station Record. Vol. 62, No. 2, February, 1930; No. 3, February Abstract Number; No. 4, March, 1930. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Forest Worker. Vol. 6, No. 1. January, 1929. Price 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Journal of Agricultural Research. Vol. 39. Index. 1930. 5¢.

— 40, No. 4. Illus. February 15, 1930. 20¢.

CONTENTS :

Protein content of reed canary grass on peat soils. Minn.—65. Frederick J. Alway and G. H. Nesom.

The morphology and biology of *Eulimneria crassifemur*, an important parasite of the European corn borer. K-205. W. R. Thompson and H. L. Parker.

The possible toxicity of grain-sorghum smuts. Okla.—16. V. G. Heller, Charles Caskey, and H. L. Parker.

Inheritance of resistance to bunt, *Tilletia tritici*, in White Odessa wheat. G-707. Fred N. Briggs.

Isolation and purification of alcohol-soluble protein (prolamin) occurring in English ryegrass (*Lolium perenne*). G-713. S. L. Jodidi.

Thresher injury a cause of baldhead in beans. G-714. L. L. Harter.

Bacterial leaf spot of squash. G-718. Mary K. Bryan.

— 40, No. 5. Illus. March 1, 1930. 20¢.

CONTENTS :

Fruit-bud development in strawberry varieties and species. G-701. George F. Waldo.

Fruit-bud formation in everbearing strawberries. G-702. George F. Waldo.

Effect of leaf rust (*Puccinia triticina* Eriks.) on yield of wheat. G-706. E. B. Mains.

Leaf spot and foot rot of Kentucky bluegrass caused by *Helminthosporium vagans*. G-716. Charles Drechsler.

Wool fineness as influenced by rate of growth. A-135. J. I. Hardy and J. B. Tennyson.

The chemical composition of colloidal material isolated from the horizons of various soil profiles. H-16. I. A. Denison.

Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

Monthly Weather Review. Vol. 57, No. 12. December, 1929. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The Official Record. Vol. 9, Nos. 10-13. March 6, 13, 20, 27, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Public Roads. Vol. 7. Index. 5¢

Snow and Ice Bulletin. Nos. 12-15. March 5, 12, 19, 26, 1930. 1 p., map. 50¢ a year.¹ Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weekly Bureau and selected cooperative stations. As far as practicable all reports of snow and ice are given.

Weekly weather and crop bulletin. Nos. 9-12. March 4, 11, 18, 25, 1930. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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MONTHLY LIST OF PUBLICATIONS

APRIL, 1930

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Onion culture. W. R. Beattie, Bureau of Plant Industry. 28 p., figs. 20. (Farmers' Bulletin 354 F., Revised.) Price, 5¢.

Flytraps and their operation. F. C. Bishopp, Bureau of Entomology. 14 p., figs. 6. (Farmers' Bulletin 734 F., Revised.) Price, 5¢.

Tuberculosis of hogs. John R. Mohler and Henry J. Washburn, Bureau of Animal Industry. 14 p., figs. 3. (Farmers' Bulletin 781 F., Revised.) Price, 5¢.

Making butter on the farm. William White, Bureau of Dairy Industry. 22 p., figs. 18. (Farmers' Bulletin 876 F., Revised.) Price, 5¢.

Measuring and marketing farm timber. Wilbur R. Mattoon and William B. Barrows, Forest Service. 57 p., figs. 23. (Farmers' Bulletin 1210 F., Revised.) Price, 10¢.

The production of peas for canning. Chester J. Hunn, Bureau of Plant Industry. 20 p., figs. 7. (Farmers' Bulletin 1255 F., Revised.) Price, 5¢.

Weevils in beans and peas. E. A. Back, Bureau of Entomology. 30 p., figs. 29. (Farmers' Bulletin 1275 F., Revised.) Price, 10¢.

Mouse control in field and orchard. James Silver, Bureau of Biological Survey. 14 p., figs. 13. (Farmers' Bulletin 1397 F., Revised.) Price, 5¢.

Muskmelons. W. R. Beattie, Bureau of Plant Industry. 38 p., figs. 38. (Farmers' Bulletin 1468 F., Revised.) Price, 10¢.

Longleaf pine primer. W. R. Mattoon, Forest Service. 34 p., figs. 27. (Farmers' Bulletin 1486 F., Revised.) Price, 10¢.

Growing cucumbers for pickling. J. H. Beattie, Bureau of Plant Industry. 18 p., figs. 9. (Farmers' Bulletin 1620 F.) Price, 5¢.

- The Mexican bean beetle in the East and its control. Neale F. Howard, Bureau of Entomology. 14 p., figs. 10. (Farmers' Bulletin 1624 F.) Price, 5¢.
- Tick fever. John R. Mohler, Bureau of Animal Industry. 30 p., figs. 5. (Farmers' Bulletin 1625 F.) Price, 5¢.
- Feeding dairy cows. T. E. Woodward and A. B. Nystrom, Bureau of Dairy Industry. 18 p., figs. 2. (Farmers' Bulletin 1626 F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

- Ice creams frozen without stirring. Louise Stanley and Jessie Alice Cline, Bureau of Home Economics. 8 p. Illus. (Leaflet 49 L., Revised.) Price, 5¢.
- How to make a cat trap. James Silver and Frank N. Jarvis, Bureau of Biological Survey. 4 p., fig. 1. (Leaflet 50 L., Revised.) Price, 5¢.
- Preventing cracks in new wood floors. L. V. Teesdale, Forest Service. 5 p., figs. 3. (Leaflet 56 L.) Price, 5¢.
- Pulpwood crops in the Northeast. M. Westveld, Forest Service. 8 p., figs. 5. (Leaflet 57 L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

- Testing phylloxera-resistant grape stocks in the vinifera regions of the United States. George H. Husmann, Bureau of Plant Industry. 54 p., figs. 2, pls. 10. (Technical Bulletin 146 T.) Price, 20¢.
- Tests of various aliphatic compounds as fumigants. R. C. Roark, Bureau of Chemistry and Soils, and R. T. Cotton, Bureau of Entomology. 52 p. (Technical Bulletin 162 T.) Price, 10¢.
- Timber growing and logging practice in the Northeast. Samuel T. Dana, formerly Director, Northeastern Forest Experiment Station, Forest Service. Introduction by William B. Greeley, formerly Forester, Forest Service. 112 p., figs. 26, pls. 21. (Technical Bulletin 166 T.) Price, 40¢.
- Breeding tobacco for resistance to Thielavia root rot. James Johnson, Agent, University of Wisconsin. 20 p., figs. 11. (Technical Bulletin 175 T.) Price, 10¢.
- Commercial irrigation companies. Wells A. Hutchins, Bureau of Public Roads. 40 p. (Technical Bulletin 177 T.) Price, 10¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

- Within the breed the big dairy cows excel. J. C. McDowell, Bureau of Dairy Industry. 4 p. (Circular 114 C.) Price, 5¢.
- Calcium arsenate dusting as a cause of aphid infestation. J. W. Folsom and F. F. Bondy, Bureau of Entomology. 12 p. (Circular 116 C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- Black currant spreads white-pine blister rust. Samuel B. Detwiler, Bureau of Plant Industry. 8 p., figs. 4. (Miscellaneous Publication 27 MP., Revised.) Price, 5¢.
- National wild-life reservations. Compiled by Division of Game and Bird Conservation, Bureau of Biological Survey. 10 p., figs. 2. (Miscellaneous Publication 51 MP., Revised.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

Iowa, Clayton County. (1925, No. 20.) 15¢.

Iowa, Kossuth County. (1925, No. 19.) 30¢.

Minnesota, Lake of the Woods County. (1926, No. 8.) 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., for March, 1930, concerning the work of the Bureau of Animal Industry. (S. R. A.—B. A. I. 275.) Pp. 19–28. Price, 5¢.

Japanese beetle quarantine. Quarantine No. 48. Revision of quarantine and regulations. 12 p. (PQCA.—Q. 48.) Effective March 1, 1930.

Notices of judgment under the food and drugs act. N. J., F. D. 16676–16700; pp. 441–452. N. J., F. D. 16701–16725; pp. 453–464. N. J., F. D. 16726–16750; pp. 465–475. N. J., F. D. 16751–16775; pp. 441–452 (?).

OTHER PUBLICATIONS

Laws and regulations relating to game, land fur-bearing animals, and birds in Alaska. 30 p., figs. 3. (Alaska G. C. Cir. 7.) Price, 5¢.

Plant material introduced by the Office of Foreign Plant Introduction, Bureau of Plant Industry, October 1 to December 31, 1928 (Nos. 77596 to 78508). 48 p. Price, 10¢.

Report of the Virgin Islands Agricultural Experiment Station, 1929. J. B. Thompson and others. 19 p., figs. 8. Price, 10¢.

Yearbook of Agriculture, 1930. 1080 p., figs. 219, graphs 35. Price \$1.50.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 4. April 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$2.50 a year; daily, including Sundays and holidays, 30¢ a month, \$3 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$6.65 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹

Experiment station record. Vol. 62, No. 5, April, 1930; No. 6, April abstract number. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 1, No. 1. May, 1930. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

— Vol. 40, No. 6; Illus. March 15, 1930.

CONTENTS:

A study of the cotton flea hopper, *Psallus seriatus* Reut., with especial reference to its effect on cotton plant tissues. (K-206.) Reginald H. Painter.

Two new species of nodular worms (*Oesophagostomum*) parasitic in the intestine of domestic swine. (A-137.) Benjamin Schwartz and Joseph E. Alicata.

Selection characters as correlated with percentage of sucrose, weight, and sucrose content of sugar beets. (G-703.) Dean A. Pack.

A mosaic of wheat transmissible to all cereal species in the tribe Hordeae. (G-719) H. H. McKinney.

Repetitional diplanetism in the genus *Phytophthora*. (G-720) Charles Drechsler.

Effects of defoliation and root pruning on the chemical composition of sweet-corn kernels. (G-721) C. W. Culpepper and C. A. Magoon.

— Vol. 40, No. 7. Illus. April 1, 1930.

CONTENTS:

A cytological study of heterothallism in *Puccinia graminis*. (G-717) Ruth F. Allen.

The anatomy of *Euphorbia intisy*. (G-715) Charles F. Swingle.

Rôle of chlorine in nutrition and growth of the tobacco plant and its effect on the quality of the cured leaf. (G-722) W. W. Garner, J. E. McMurtrey, jr., J. D. Bowling, and E. G. Moss.

The toxic constituent of rayless goldenrod. (A-136) James Fitton Couch.

Methods used in testing materials as repellents against the Japanese beetle. (K-208) F. W. Metzger.

The properties of arachin and conarachin and the proportionate occurrence of these proteins in the peanut. (E-42) D. Breese Jones and Millard J. Horn.

— Vol. 40, No. 8. Illus. April 15, 1930.

CONTENTS:

Nuclear divisions in the pollen mother cells of *Triticum*, *Aegilops*, and *Secale* and their hybrids. (G-727) A. E. Longley and W. J. Sando.

Inheritance of *Fusarium* resistance in cabbage. (G-704) J. C. Walker.

Effect of the apple strain of the crown-gall organism on root production. (G-726) E. A. Siegler.

Influence of Bordeaux mixture on the efficiency of lubricating-oil emulsions in the control of San Jose scale. (K-207) B. A. Porter and R. F. Sazama.

Studies of vitamin C in fresh and canned tomatoes. (Wis.-49) Bertha Clow and Abby L. Marlatt.

Monthly weather review. Vol. 57. 1929. Index. Price, 5¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The official record. Vol. 9, Nos. 14-17. April 3, 10, 17, 24, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Public roads. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

— Vol. 11, No. 1. March, 1930. Illus.

CONTENTS:

Computation of stresses in bridge slabs due to wheel loads.

— Vol. 11, No. 2. April, 1930.

CONTENTS:

Drinking fountains along Oregon highways.

Flow of flood water over railway and highway embankment.

Plans for international road congress announced.

Motor vehicle registrations and revenue and gasoline taxes in 1929.

Soil sampling with a compressed air unit.

Weekly weather and crop bulletin. Nos. 13-16. April 1, 8, 15, 22, 1930. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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United States Department of Agriculture MONTHLY LIST OF PUBLICATIONS

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The principles of the liming of soils. Edmund C. Shorey, Bureau of Chemistry and Soils. 22 p., figs. 6. (Farmers' Bulletin 921 F., Revised.) Price, 5¢.

The farm lease contract. L. C. Gray and Howard A. Turner, Bureau of Agricultural Economics. 36 p. (Farmers' Bulletin 1164 F., Revised.) Price, 5¢.

Seed marketing hints for the farmer. George C. Edler, Bureau of Agricultural Economics. 32 p., figs. 14. (Farmers' Bulletin 1232 F., Revised.) Price, 5¢.

Farmers' telephone companies: Organization, financing, and management. I. M. Spasoff and H. S. Beardsley, Bureau of Agricultural Economics. 30 p., figs. 3. (Farmers' Bulletin 1245 F., Revised.) Price, 5¢.

Preparation of fresh tomatoes for market. F. Earl Parsons, Bureau of Agricultural Economics. 32 p., figs. 20. (Farmers' Bulletin 1291 F., Revised.) Price, 5¢.

Lettuce growing in greenhouses. James H. Beattie, Bureau of Plant Industry. 22 p., figs. 10. (Farmers' Bulletin 1418 F., Revised.) Price, 5¢.

Feeding cattle for beef. W. H. Black, Bureau of Animal Industry. 17 p., figs. 10. (Farmers' Bulletin 1549 F., Revised.) Price, 5¢.

Varieties of hard red spring wheat. J. Allen Clark. 26 p., figs. 16. (Farmers' Bulletin 1621 F.) Price, 5¢.

There are 23 recognized registered varieties of hard red spring wheat commercially grown in the U. S. This bulletin lists these varieties and tells where they are grown and to what regions they are best adapted. Supersedes F. B. 1281.

Rural buildings for business and social uses. Wayne C. Nason, Bureau of Agricultural Economics. 38 p., figs. 21. (Farmers' Bulletin 1622 F.) Price, 10¢.

Supersedes Department Bulletin 825 and Farmers' Bulletins 1192 and 1274. Suggests the newer trend of planning community houses for the combined purposes of business and recreation, gives floor plans, and cites successful examples.

Growing black locust trees. Wilbur R. Mattoon, Forest Service. 14 p., figs. 10. (Farmers' Bulletin 1628 F.) Price, 5¢.

Black locust, like most forest trees, is naturally adapted to growing in certain types of soils and situations better than others. Before attempting to plant black locust, it is of the utmost importance that information and advice be sought from the local State forestry agencies, as a necessary supplement to that contained in this bulletin.

Steam sterilization of soil for tobacco and other crops. James Johnson, Bureau of Plant Industry and University of Wisconsin. 14 p., figs. 7. (Farmers' Bulletin 1629 F.) Price, 5¢.

Describes equipment necessary for soil sterilization by the steam-pan and other methods. Advice is also given relative to the details of preparing the soil, performing the work, and the subsequent management of the sterilized soil. Suggests modifications to suit special needs and requirements.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Making a model to show how forests prevent erosion. Prepared by the Forest Service. [3] p., illus. (Leaflet 58 L.) Price, 5¢.

Describes the preparation of a model of comparatively simple construction which can be made by any school, 4-H club, or other group, that will clearly show the effect of forest cover in soil and water conservation.

Porcupine control in the Western States. Ira N. Gabrielson and E. E. Horn, Bureau of Biological Survey. 8 p., figs. 6 (Leaflet 60 L.) Price, 5¢.

Describes the habits of porcupines and outlines methods of controlling them where overabundant. The methods are based on the seasonal movements and feeding activities of the animals. Recommends systematic hunting and shooting, also poisoning with a strychnine-salt mixture, formula and directions for which are given.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Forestry lessons on home woodlands. Wilbur R. Mattoon, Forest Service, and Erwin H. Shinn, Office of Cooperative Extension Work. 44 p., figs. 20, frontispiece. (Department Bulletin 863 D., Revised.) Price, 10¢.

Outline studies on the identification of important local forest trees; proper location of woodlands on the farm and their economic value to the farm; the different farm timber products; measuring and marketing timber; utilizing timber rightly on the farm; protecting and improving woodlands; and planting young timber.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Cooperative marketing of fluid milk. Hutzel Metzger, Bureau of Agricultural Economics. 92 p., figs. 11. (Technical Bulletin 179 T.) Price, 20¢.

Presents the principal findings of a survey made of the development and methods of operation of each fluid-milk marketing organization in the U. S. in its particular market and of the economic conditions under which the organization operates.

Clubroot of crucifers. F. L. Wellman, formerly agent, Bureau of Plant Industry. 32 p., figs. 3. (Technical Bulletin 181 T.) Price, 5¢.

Reports the results of several years' studies on the life history and control of *Plasmidiophora brassicae*, the cause of the destructive disease of crucifers known as clubroot. Two tons of hydrated lime per acre was found to be a commercially satisfactory control.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Market classes and grades of dressed veal and calf carcasses. W. C. Davis and C. M. Harris, Bureau of Agricultural Economics. 32 p., fig. 1, pls. 18. (Circular 103 C.) Price, 25¢.

This circular is a valuable addition to the series of standardization publications issued by the Bureau of Agricultural Economics.

Knotty lumber for boxes. G. E. Heck and I. B. Lanpher, Forest Service. 20 p., figs. 15. (Circular 105 C.) Price, 10¢.

Recommends use of knotty material in several parts of wooden boxes; recommendations are based on tests, extensive experience, and observation of containers in service. Of interest to the box manufacturer and ultimate consumer, and to the forester and timber owner as well.

An analysis of the business of the poultry producers of central California. A. V. Swarthout, Bureau of Agricultural Economics. 52 p., figs. 17. (Circular 111 C.) Price, 10¢.

Includes such topics as organization of the association, membership relations, analysis of the market, and benefits to members.

The production of hyacinth bulbs. David Griffiths, Bureau of Plant Industry. 35 p., figs. 19. (Circular 112 C.) Price, 10¢.

Describes in detail the various steps in the culture and production of the hyacinth. Soil, fertilizer, and storage requirements are given, also instructions for both artificial and natural propagation of the bulb.

The sugar-beet leaf-spot disease and its control by direct measures. G. H. Coons, Dewey Stewart, and F. G. Larmer, Bureau of Plant Industry. 20 p., figs. 7. (Circular 115 C.) Price, 5¢.

Of interest to sugar-beet companies and growers in areas where the leaf-spot disease is a factor in sugar-beet growing. Experiments demonstrate the possibility of control by dusting with copper sulphate-lime dust and by Bordeaux mixture.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Essentials for the successful operation of a local creamery. William White, Bureau of Dairy Industry. 12 p., figs. 3. (Miscellaneous Publication 37 MP., Revised.) Price, 5¢.

Answers such questions as: "Do conditions warrant establishing a creamery in the community?" "What are the problems involved in such a venture?" and "What is the minimum volume of cream required for the successful operation of a creamery?"

Weather forecasting from synoptic charts. Alfred Judson Henry, Weather Bureau. 80 p., figs. 31. (Miscellaneous Publication 71 MP.) Price, 20¢.

Contains reproductions of typical weather charts for winter and summer seasons together with official forecasts issued therefrom and so far as practicable a statement of the underlying reasons for the forecasts. A study of these will lead to a better understanding of weather processes.

An annotated list of the important North American forest insects. Compiled by F. C. Craighead and William Middleton, Bureau of Entomology. 31 p. (Miscellaneous Publication 74 MP.) Price, 10¢.

Method of testing the capacity of fruit and vegetable containers under the United States standard containers acts. H. A. Spilman and T. C. J. Baker, Bureau of Agricultural Economics. 14 p., figs. 9. (Miscellaneous Publication 75 MP.) Price, 5¢.

The standard container acts of 1916 and 1928 place upon the Department the duty of making capacity tests of baskets to determine whether they comply with the law. This publication describes in detail the method and apparatus used and tells how to make the test.

An annotated list of literature references on garment sizes and body measurements. Ruth O'Brien, Bureau of Home Economics. 48 p. (Miscellaneous Publication 78 MP.) Price, 10¢.

Of interest to garment and pattern manufacturers concerned with the problem of sizing garments for American children and adults. The dearth of authentic information points out the need for scientifically executed anthropometric studies, carefully planned for this particular purpose.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., for April, 1930, concerning the work of the Bureau of Animal Industry. (S. R. A.-B. A. I. 276.) pp. 29-36. Price, 5¢.

Notice of permit requirement for the entry of Aglaonema. May 8, 1930. Plant Quarantine and Control Administration.

Notices of judgment under the food and drugs act. N. J., F. D. 16776-16800. pp. 489-513.

Regulations pursuant to Public Resolution No. 42, Seventy-first Congress, entitled "Joint resolution to amend the joint resolution entitled 'Joint resolution to provide for eradication of pink bollworm and authorizing an appropriation therefor,' approved May 21, 1928," approved February 8, 1930. (P. Q. C. A. Reg.) 4 p.

OTHER PUBLICATIONS

Directory, Forest Service. April, 1930. 34 p. Price, 5¢.

Report of the Hawaii Agricultural Experiment Station, 1929. J. M. Westgate and others. 34 p., figs. 9. Price, 10¢.

A brief account of the work of the station during the year on soils and with various field crops, fruits, nuts, vegetables, grasses, and other forage crops, and green manure crops; distribution of improved fruits and other plants; and demonstration and extension work.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 5. May 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 1, January, 1930; No. 2, February, 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

¹ See footnote on p. 4.

Crops and markets. Vol. 6, Index, 1929; Vol. 7, No. 4, April, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, condition and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 61, index number, July–December, 1929. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 1, No. 2. June, 1930. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 6, No. 2. February, 1929. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign. Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

— Vol. 40, No. 9. May 1, 1930. Illus.

CONTENTS:

- Pecan leaf blotch. (G-723.) J. B. Demaree and J. R. Cole.
- Cell-sap concentration and transpiration as related to age and development of cotton leaves. (G-709.) Frank M. Eaton.
- Diseases of rose caused by Species of *Coniothyrium* in the United States. (G-725.) Alma M. Waterman.
- Inheritance of certain seed-coat colors in soybeans. (Iowa-18.) Ralph T. Stewart.
- The normal limits of variation of the methylene-blue reduction test. (Kans.-58.) A. C. Fay.
- Sex differences in the normal growth rate of chicks. (Nebr.-11.) C. W. Ackerson and F. E. Mussehl.

— Vol. 40, No. 10. May 15, 1930. Illus.

CONTENTS:

- A study of the structure of sugar beets in relation to sugar content and type. (G-724.) Ernst Artschwager.
 - Toxicity of *Bikukulla formosa* (western bleedingheart). (G-729.) O. F. Black, W. W. Eggleston, and J. W. Kelly.
 - Ferric citrate as an ingredient of mineral mixtures in paired-feeding experiments with growing swine. (Ill.-37.) W. E. Carroll, H. H. Mitchell, and G. E. Hunt.
 - The production and cure of nutritional anemia in suckling pigs. (Ill.-38.) T. S. Hamilton, G. E. Hunt, H. H. Mitchell, and W. E. Carroll.
 - Linkage studies with "slashed" and "glossy"₁ of the "BN" linkage group in maize. (Minn.-66.) H. E. Brewbaker.
 - Toxicity of sulphur to spores of *Sclerotinia cinerea* as affected by the presence of pentathionic and other sulphur acids. (Ohio-9.) O. Neal Liming and H. C. Young.
- Monthly weather review.** Vol. 58, No. 1, January, 1930; No. 2, February, 1930. Illus. Price 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The official record. Vol. 8, Index: Vol. 9, Nos. 18–22. May 1, 8, 15, 22, 29, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

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MONTHLY LIST OF PUBLICATIONS

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The home production of onion seed and sets. W. R. Beattie, Bureau of Plant Industry. 18 p., figs. 11. (Farmers' Bulletin 434 F., revised.) Price, 5¢.

Squab raising. Alfred R. Lee, Bureau of Animal Industry. 21 p., figs. 19. (Farmers' Bulletin 684 F., revised.) Price, 5¢.

Diseases and insects of garden vegetables. W. W. Gilbert, Bureau of Plant Industry, and C. H. Popenoe, Bureau of Entomology. 46 p., figs. 65. (Farmers' Bulletin 1371 F., revised.) Price, 10¢.

Care and management of dairy bulls. J. R. Dawson, Bureau of Dairy Industry. 22 p., figs. 21. (Farmers' Bulletin 1412 F., revised.) Price, 5¢.

Rat control. James Silver, Bureau of Biological Survey. 21 p., figs. 10. (Farmers' Bulletin 1533 F., revised.) Price, 5¢.

The Hessian fly and how losses from it can be avoided. W. R. Walton and C. M. Packard, Bureau of Entomology. 14 p., figs. 14. (Farmers' Bulletin 1627 F.) Price, 5¢.

This bulletin is a revision of and supersedes Farmers' Bulletin No. 1083, The Hessian fly and how to prevent losses from it.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Improved sanitation in milk production. R. J. Posson. Revised by C. S. Leete, Bureau of Dairy Industry. 8 p., figs. 8. (Leaflet 3 L., revised.) Price, 5¢.

Rabbit-house construction. Prepared by the Bureau of Biological Survey and the Bureau of Public Roads. 8 p., figs. 5. (Leaflet 15 L., revised.) Price, 5¢.

Constructive details for rabbit houses, giving attention both to the comfort of the animals and the convenience of the caretaker.

English sparrow control. E. R. Kalmbach, Bureau of Biological Survey. 8 p., figs. 7. (Leaflet 61 L.) Price, 5¢.

Sets forth economical and effective measures for local control of the sparrow population, including designs for traps and formulas for poison bait.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Principles of box and crate construction. C. A. Plaskett, Forest Service. 134 p., figs. 34, pls. 42. (Technical Bulletin 171 T.) Price, 55¢.

Based on investigations at Forest Products Laboratory, Madison, Wisconsin. Gives formulas, rules, and instructions for designing all of the common types of boxes and crates, and deals with special requirements and properties of container woods. Intended primarily for box and crate manufacturers and shippers.

Origin and distribution of the commercial strawberry crop. J. W. Strowbridge, Bureau of Agricultural Economics. 104 p., figs. 57. (Technical Bulletin 180 T.) Price, 25¢.

Discussed briefly by text and presented more fully by tables and graphs.

Factors affecting the mechanical application of fertilizers to the soil. Arnon L. Mehring, Bureau of Chemistry and Soils, and Glenn A. Cumings, Bureau of Public Roads. 96 p., figs. 26, pls. 18. (Technical Bulletin 182 T.) Price, 30¢.

Intended to give definite information regarding the drillability of the most commonly used fertilizers and the performance of various types of fertilizer distributors. Of interest principally to manufacturers and research workers.

Life history of the oriental peach moth at Riverton, N. J., in relation to temperature. Alvah Peterson and G. J. Haeussler, Bureau of Entomology. 38 p., figs. 22. (Technical Bulletin 183 T.) Price, 10¢.

As far as possible and advisable, long detailed life-history tables have been omitted. Summary tables and graphs have been used in their place; also all general information and biological data which do not have a direct bearing on the life cycle are omitted.

Erosion and silting of dredged drainage ditches. C. E. Ramser, Bureau of Public Roads. 55 p., figs. 24, pls. 22. (Technical Bulletin 184 T.) Price, 25¢.

Reports cross-sectional and hydraulic measurements and results of observations made between 1913 and 1921 on 22 dredged drainage ditches in Mississippi, Tennessee, and Iowa, of all conditions that influence the erosion and silting of ditches. Should assist the engineer in making predictions as to probable erosion and silting in ditches so that drainage improvements can be planned accordingly.

Irrigation requirements of the arid and semiarid lands of the Southwest. Samuel Fortier and Arthur A. Young, Bureau of Public Roads. 68 p., figs 11. (Technical Bulletin 185 T.) Price, 15¢.

This report is the third of a series on irrigation requirements in the Western States. Data are presented to show that the area irrigated may be increased from 3,771,000 to 13,000,000 acres, provided the available water supply is efficiently controlled and utilized and the seasonal net irrigation requirements do not exceed the average quantity of irrigation water allotted to each of the subdivisions into which the territory is separated.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The Asiatic beetle, a serious pest in lawns. H. C. Hallock, Bureau of Entomology. 8 p., figs. 3. (Circular 117 C.) Price 5¢.

Gives the life history of this beetle and discusses practical measures of artificial control as well as the importation of parasites from the native home of the beetle.

Calculating waterfowl abundance on the basis of banding returns. Frederick C. Lincoln, Bureau of Biological Survey. 4 p., fig. 1. (Circular 118 C.) Price, 5¢.

Proposes a new method for estimating the numbers of waterfowl in North America in any one season. By this method it should be possible to arrive at an average percentage to serve as a standard.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Anthelmintics for the removal of thorn-headed worms from swine, Willard H. Wright and H. B. Raffensperger, Bureau of Animal Industry. 12 p. (Miscellaneous Publication 79 MP.) Price, 5¢.

A semitechnical publication dealing with the life history and control of this parasite. Intended for parasitologists, veterinarians, and swine raisers.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Indiana, Wayne County. (1925, No. 21.) 15¢.

South Dakota, Brown County. (1925, No. 22.) 25¢.

Texas, Nacogdoches County. (1925, No. 24.) 25¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1927 and 1928. Prepared by the Division of Fruits and Vegetables, Bureau of Agricultural Economics. 164 p. (Statistical Bulletin 30 SB.) Price, 25¢.

Contains tabulations showing the number of carloads of 18 important fruits and vegetables unloaded in 66 cities and the number of carload shipments of 37 fruits and vegetables during the same years, segregated by State of origin.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., for May, 1930, concerning the work of the Bureau of Animal Industry. (S. R. A.—B. A. I. 277.) pp. 39-46. Price, 5¢.

Notices of judgment under the food and drugs act. N J., F. D. 16801-16825, pp. 515-525.

Plant material introduced by the Office of Foreign Plant Introduction, Bureau of Plant Industry, January 1 to March 31, 1929 (Nos. 78509 to 80018.) 67 p. (Inventory 98.) Price, 10¢.

Revision of rules and regulations supplemental to quarantine of Hawaii on account of the Mediterranean melon fly. Plant Quarantine and Control Administration. 4 p. June 1, 1930.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 6. June 1, 1930. Price 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 7, No. 5. May, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, condition and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.50 a year.¹

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Experiment station record. Vol. 62, No. 7. May, 1930; No. 8. June, 1930. Single number for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Forest worker. Vol. 6, No. 3. May, 1930. Price 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

——— Vol. 40, No. 11. June 1, 1930. Illus.

CONTENTS:

- Bacterial streak disease of sorghums. (G-708.) Charlotte Elliott.
- Beef extract as a source of vitamin G. (A-138.) Ralph Hoagland and George G. Snider.
- Carotenosis of bovine livers associated with parenchymatous degeneration. (A-139.) John S. Buckley, E. C. Joss, G. T. Creech, and James F. Couch.
- The insecticidal action of some derivatives of pyridine and pyrrolidine and of some aliphatic amines. (K-209.) C. H. Richardson and H. H. Shephard.
- Development of cotton fibers in the Pima and Acala varieties. (Ariz.-3.) R. S. Hawkins and George H. Serviss.
- Souring of figs by yeasts and the transmission of the disease by insects. (Calif.-52.) Panos D. Caldis.
- Tests to determine toxicity of pyrethrum vapors to honeybees. (N. J.-19.) Joseph M. Ginsburg.

——— Vol. 40, No. 12. June 15, 1930. Illus.

CONTENTS:

- Studies of the staminate inflorescence and pollen of *Hicoria pecan*. (Ga.-6.) J. G. Woodroof.
- Inheritance of anthocyan pigmentation in rice. (G-728.) Jenkin W. Jones.
- The comparative nutritive value of yellow corn and the grain sorghums hegari and yellow milo. (Ariz.-2.) Margaret Cammack Smith.
- A quantitative comparison of the vitamin-A content of yellow corn and the grain sorghums hegari and yellow milo. (Ariz.-4.) Margaret Cammack Smith.

Monthly weather review. Vol. 58, No. 3. March, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

Public roads. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year foreign.¹

——— Vol. 11, No. 1. March, 1930. Illus.

CONTENTS:

- A technical basis for apportioning motor vehicle taxes.
- A method of analysis of data on frost occurrence for use in highway design.

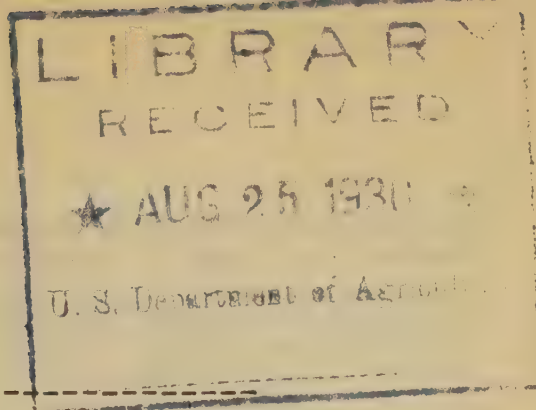
The official record. Vol. 9, Nos. 23-26. June 5, 12, 19, 26, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

JULY, 1930

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Ginseng diseases and their control. H. H. Whetzel, J. Rosenbaum, J. W. Brann, and J. A. McClintock, Bureau of Plant Industry. 20 p., figs. 26. (Farmers' Bulletin 736 F., revised.) Price, 5¢.

The city home garden. W. R. Beattie, Bureau of Plant Industry. 30 p., figs. 14. (Farmers' Bulletin 1044 F., revised.) Price, 5¢.

Beautifying the farmstead. Furman Lloyd Mulford, Bureau of Plant Industry. 38 p., 42 figs. (Farmers' Bulletin 1087 F., revised.) Price, 10¢.

Stored-grain pests. E. A. Back and R. T. Cotton, Bureau of Entomology. 46 p., figs. 69. (Farmers' Bulletin 1260 F., revised.) Price, 15¢.

Care and management of dairy cows. T. E. Woodward and J. R. Dawson, Bureau of Dairy Industry. 37 p., figs. 20. (Farmers' Bulletin 1470 F., revised.) Price, 10¢.

Lettuce growing. W. R. Beattie, Bureau of Plant Industry. 30 p., figs. 20. (Farmers' Bulletin 1609 F., slightly revised.) Price, 5¢.

Irrigation practices in growing alfalfa. Samuel Fortier, Bureau of Public Roads. 26 p., figs. 24. (Farmers' Bulletin 1630 F.) Price, 5¢.

This is a revision of and supersedes Farmers' Bulletin 865. It tells how to construct farm ditches and describes six methods of applying water to alfalfa and the advantages and disadvantages of each. Of interest chiefly to farmers in the arid and semiarid regions.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Care of the dairy cow at calving time. J. B. Shepherd, Bureau of Dairy Industry. 4 p., fig. 1. (Leaflet 10 L., revised.) Price, 5¢.

Hints on wolf and coyote trapping. Stanley P. Young, Bureau of Biological Survey. 8 p., figs. 3. (Leaflet 59 L.) Price, 5¢.

Coyotes and wolves are a menace, both as predators and as carriers of rabies, or hydrophobia. Trapping has been found to be one of the most effective methods of capturing these animals. This leaflet discusses the strategy required in trapping, the method of setting traps, and the principles of scenting.

Ensembles for sunny days. Clarice Louisba Scott, Bureau of Home Economics. 4 p., illus. (Leaflet 63 L.) Price, 5¢.

Gives suggestions for the construction of simple clothing for children to be used in hot weather, including apparel for both boys and girls.

Rabbit recipes. Fanny Walker Yeatman and Mabel C. Stienbarger, Bureau of Home Economics. 8 p., illus. (Leaflet 66 L.) Price, 5¢.

In food value, rabbit falls in the class with poultry and other meats as a source of efficient protein. The recipes given here are merely typical of the many suitable for cooking the white-meated, delicately flavored domestic rabbit.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

The air seasoning of wood. J. S. Mathewson, Forest Service. 56 p., figs. 14, pls. 22. (Technical Bulletin 174 T.) Price, 35¢.

Outlines the basic principles of wood drying, and shows how they affect the air seasoning of boards and planks, dimension stock, lath, crossties, poles, posts, timbers, cordwood, cooperage, and veneer. The effects on seasoning of climate, time of year, and other factors are discussed in detail. Of interest to sawmill owners and farmers.

Relative insecticidal value of commercial grades of pyrethrum. C. C. McDonnell, W. S. Abbott, W. M. Davidson, and G. L. Keenan, Food, Drug, and Insecticide Administration, and O. A. Nelson, Bureau of Chemistry and Soils. 10 p. (Technical Bulletin 198 T.) Price, 5¢.

In order to determine whether the effectiveness of insect powder (pyrethrum) depends upon the maturity of the flowers from which it was made and on the region where the flowers were grown, pyrethrum flowers grown in Europe, representing three commercial grades (closed, half-closed, and open), and flowers from Japan were ground into powder and tested against aphids.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

National standards for farm products. Lloyd S. Tenny in collaboration with the standardization specialists of the Bureau of Agricultural Economics. 52 p., figs. 14. (Circular 8 C., revised.) Price, 15¢.

Experiments with hot-water treatment of daffodils in relation to forcing and field culture. David Graffiths, Bureau of Plant Industry. 36 p., figs. 18. (Circular 113 C.) Price, 15¢.

Prepared for commercial bulb growers and those who are conducting research on the treatment and storage of daffodil bulbs. Describes injuries and beneficial effects resulting from hot-water treatment.

Relation of dust fungicides to flow of small grains through drills and to drill injury. R. W. Leukel, Bureau of Plant Industry. 10 p. (Circular 119 C.) Price, 5¢.

The effects of copper carbonate and other dust fungicides on the flow of grain through the drill and on the drill itself, and also the added effects of atmospheric moisture and rain are recorded in this circular.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Georgia, Bartow County. (1926, No. 11.) 25¢.

Indiana, Putnam County. (1925, No. 27.) 20¢.

Michigan, Kent County. (1926, No. 10.) 25¢.

Texas, Milam County. (1925, No. 25.) 30¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Official standards for the inspection of apples. Bureau of Agricultural Economics, Service and regulatory announcements No. 93, Amendment No. 10. 8 p. (S. R. A., B. A. E. 93, Amend. 10.) Price, 5¢.

Service and regulatory announcements, Plant Quarantine and Control Administration, October-December, 1929. pp. 181-247. (S. R. A., P. Q. C. A. No. 101.) Price, 10¢.

Service and regulatory announcements, Plant Quarantine and Control Administration, January-March, 1930. pp. 1-31. (S. R. A., P. Q. C. A. No. 102.) Price, 10¢.

Thurberia weevil quarantine No. 61, revised. Modification of regulations. Plant Quarantine and Control Administration. 1 p. (P. Q. C. A.—Q. 61, Amend. 1.)

OTHER PUBLICATIONS

List and analytical index of publications of the Porto Rico Agricultural Experiment Station. (July, 1900, to March, 1930.) Elizabeth H. Langdale, Office of Experiment Stations. 42 p. (Porto Rico Circular 21 PRC.) Price, 10¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 7. July 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 16, No. 13. Year 1929; Vol. 17, No. 3, March, 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 7, No. 6, June, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 62, No. 9, June, 1930, abstract number. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 1, No. 3. July, 1930. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

— Vol. 41, No. 1. July 1, 1930. Illus.

CONTENTS:

- Effect of environmental factors upon the resistance of cabbage to yellows. (G-710.) J. C. Walker and Rose Smith.
 A cytological study of cabbage plants in strains susceptible or resistant to yellows. (G-712.) Rose Smith and J. C. Walker.
 A study of the accuracy of measurements of dairy cattle. (Tex.-8) Jay L. Lush and O. C. Copeland.
 The vitamin-C content of commercially canned sauerkraut, together with some observations on its vitamin-A content. (Wis.-50.) Bertha Clow, Helen T. Parsons, and Ina Stevenson.
 Potassium iodide as a mineral supplement in paired feeding experiments with growing swine. (Ill.-39.) W. E. Carroll, H. H. Mitchell, and G. E. Hunt.
 Influence of small quantities of potassium iodide on the assimilation of nitrogen, phosphorus, and calcium in the growing pig. (Ill.-40.) F. J. McClure and H. H. Mitchell.
 Variations in content of sugars and related substances in olives. (Calif.-53.) P. F. Nichols.

Public roads. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year foreign.¹

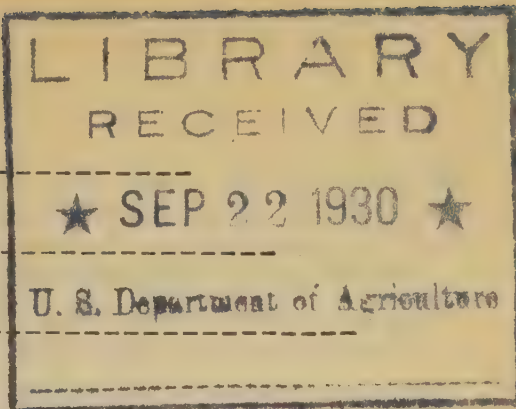
— Vol. 11, No. 4. June, 1930. Illus.

CONTENTS:

- Illustrations of frost and ice phenomena.
 Progress report of the Connecticut Avenue experimental road.
 Some points of contact between soil science and highway engineering.
 The official record. Vol. 9, Nos. 27-30. July 3, 10, 17, 24, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.
 Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.
 Weekly weather and crop bulletin. Nos. 26-30. July 1, 8, 15, 22, 29, 1930. Price, 50¢ a year, domestic; \$1 a year, foreign.¹
 Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

AUGUST, 1930

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Breeds of beef cattle. E. W. Sheets, Bureau of Animal Industry. Revised by W. H. Black. 26 p., figs. 18. (Farmers' Bulletin 612 F., slightly revised.) Price 5¢.

The house centipede. O. L. Marlatt, Bureau of Entomology. 4 p., figs. 2. (Farmers' Bulletin 627 F., revised.) Price 5¢.

Sheep-killing dogs. V. L. Simmons, Bureau of Animal Industry. 34 p., figs. 2. (Farmers' Bulletin 1268 F., revised.) Price 5¢.

Cleaning milking machines. L. H. Burgwald, Bureau of Dairy Industry. 14 p., figs. 12. (Farmers' Bulletin 1315 F., revised.) Price 5¢.

Strawberry diseases. Neil E. Stevens, Bureau of Plant Industry. 18 p., figs. 9. (Farmers' Bulletin 1458 F., revised.) Price 5¢.

Preventing damage by termites or white ants. T. E. Snyder, Bureau of Entomology. 22 p., figs. 19. (Farmers' Bulletin 1472 F., revised.) Price 5¢.

Marketing farm produce by parcel post. Lewis B. Flohr, Bureau of Agricultural Economics. 54 p., figs. 24. (Farmers' Bulletin 1551 F., revised.) Price 10¢.

Karakul sheep. C. G. Potts, Bureau of Animal Industry. 10 p., figs. 6. (Farmers' Bulletin 1632 F.) Price 10¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

The bacterial blight of beans caused by *Bacterium phaseoli*. W. J. Zaumeyer, Bureau of Plant Industry. 36 p., figs. 10, pls. 2. (Technical Bulletin 186 T.) Price 10¢.

Ventilation of farm barns. M. A. R. Kelley, Bureau of Public Roads. 75 p., figs. 24, pls. 8. (Technical Bulletin 187 T.) Price 25¢.

Experiments on the control of tomato yellows. Michael Shapovalov, Bureau of Plant Industry. 24 p., pls. 4, fig. 1. (Technical Bulletin 189 T.) Price 10¢.

A study of the lesser migratory grasshopper. R. L. Shotwell, Bureau of Entomology. 35 p., figs. 13. (Technical Bulletin 190 T.) Price 10¢.

As this pest can best be combated in the egg or early nymphal stages, the life-history study here presented should be of material aid in control work.

The production, extraction, and germination of lodgepole pine seed. C. G. Bates, Forest service. 92 p., figs. 21, pls. 3. (Technical Bulletin 191 T.) Price 20¢.

Wintering steers in the North Central Great Plains Section. W. H. Black, Bureau of Animal Industry, and O. R. Mathews, Bureau of Plant Industry. 14 p., figs. 2. (Technical Bulletin 192 T.) Price 5¢.

Control of the mountain pine beetle in lodgepole pine by the use of solar heat. J. E. Patterson, Bureau of Entomology. 20 p., figs. 11. (Technical Bulletin 195 T.) Price 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

A comparative study of dusting by means of airplane and ground machine for the control of the blueberry maggot. F. H. Lathrop and C. B. Nickels, Bureau of Entomology. 15 p., figs. 3. (Circular 123 C.) Price 5¢.

Traps for the Japanese beetle. E. R. Van Leeuwen and F. W. Metzger, Bureau of Entomology. 16 p., figs. 6. (Circular 130 C.) Price, 5¢.

Fighting the corn borer with machinery in the two-generation area. C. O. Reed, Ohio State University, and R. B. Gray, Bureau of Public Roads, collaborating with L. H. Worthley, Plant Quarantine and Control Administration, and D. J. Caffrey, Bureau of Entomology. 50 p., 36 figs. (Circular 132 C.) Price 15¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Recommendations of the Bureau of Animal Industry on problems of livestock production. 14 p. (Miscellaneous Publication 81 MP.) Price 5¢.

How the national forests of California benefit the State. S. B. Show, Forest Service. 8 p. (Miscellaneous Publication 82 MP.) Price 5¢.

The world wheat outlook, 1930, and facts that farmers should consider. Prepared by the staff of the Bureau of Agricultural Economics. 40 p., figs. 34. (Miscellaneous Publication 95 MP.) Price 10¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Alabama, Montgomery County. (1926, No. 12.) 25¢.

Maryland, Prince Georges County. (1925, No. 30.) 20¢.

Massachusetts, Dukes and Nantucket Counties. (1925, No. 28.) Price 25¢.

Ohio, Muskingum County. (1925, No. 26.) 25¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, for July, 1930 (S. R. A.—B. A. I. 278), pp. 47–56, price 5¢; for August, 1930 (S. R. A.—B. A. I. 279), pp. 57–64, price 5¢.

- Developments in methods of corn-borer control. L. H. Worthley, Plant Quarantine and Control Administration. 4 p. (P. Q. C. A.—Unnumbered.)
- List of current quarantines and other restrictive orders and miscellaneous regulations, Plant Quarantine and Control Administration. 7 p. (P. Q. C. A.—Unnumbered.)
- Modification of European corn borer regulations. Amendment to regulation 3. Effective August 1, 1930. 1 p. (P. Q. C. A.—Q. 43.)
- Notices of judgment under the food and drugs act. N. J. F. D. 16826-16850, pp. 527-539; N. J. F. D. 16851-16875, pp. 541-557; N. J. F. D. 16876-16900, pp. 559-569; N. J. F. D. 16901-16925, pp. 571-582.
- Regulations governing the entry of potatoes into the United States. Amendment 2 to Regulation 7. Effective August 1, 1930. 2 p. (P. Q. C. A.—Potato Regs.)
- Regulations governing the meat inspection of the U. S. Department of Agriculture. Amendment to Regulation 1, B. A. I. Order 211, revised. 2 p. (Amend. 6 to B. A. I. Order 211, revised.) Price 5¢.
- Regulations governing the recognition of breeds and purebred animals. 6 p. (B. A. I. Order 325.) Price 5¢.
- White-pine blister-rust quarantine. Quarantine No. 63, revision of regulations. 6 p. (P. Q. C. A.—Q. 63.) Price 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 8. August 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 4, April, 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 7, No. 7, July, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 63, No. 1, July, 1930. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Forest worker. Vol. 6, No. 4. July, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

— Vol. 41, No. 2. July 15, 1930. Illus.

CONTENTS:

Effect of rye and vetch green manures on the microflora, nitrates, and hydrogen-ion concentration of two acid and neutralized soils. (H-17.) Nathan R. Smith and Harry Humfeld.

Neodiplogaster pinicola, n. sp., a nema associated with the white-pine weevil in terminal shoots of the white pine. (G-733.) G. Steiner.

A method for determining the quantity of oil retained by citrus foliage after spraying. (Ala.-14.) L. L. English.

The value of potassium iodide as a supplement to the ration of growing chicks. (Ill.-41.) T. S. Hamilton and C. H. Kick.

A comparative study of the protective value of certain fabrics in still and moving air. (Kans.-59.) Katherine Hess, E. V. Floyd, and Lillian Baker.

The limits of error of the Babcock test for cream. (Kans.-60.) W. H. Martin, A. C. Fay, and K. M. Renner.

Genetic characters in relation to chromosome numbers in a wheat species cross. (Minn.-67.) F. J. Stevenson.

— Vol. 41, No. 3. August 1, 1930. Illus.

CONTENTS:

Anatomy and physiology of the digestive tract of the Japanese beetle. (K-210.) Millard C. Swingle.

The feeding rate of the Australian lady beetle, *Rodolia cardinalis*. (K-211.) A. W. Cressman and Mrs. J. O. Dumestre.

Vitamin G in certain meats and meat by-products. (A-140.) Ralph Hoagland and George G. Snider.

Relation between the vigor of the corn plant and its susceptibility to smut (*Ustilago zeae*). (G-735.) C. H. Kyle.

A comparative study of the citrus blast bacterium and some other allied organisms. (Calif.-54.) Clayton O. Smith and Howard S. Fawcett.

Some physiological studies of *Phytomonas citri*. (Fla.-4.) K. W. Loucks.

Bacterial stripe diseases of sugarcane in Louisiana. (La.-5.) W. N. Christopher and C. W. Edgerton.

Monthly weather review. Vol. 58, No. 4. April, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

Public roads. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year foreign.¹

— Vol. 11, No. 5. July, 1930. Illus.

CONTENTS:

Calibrations of accelerometers for use in motor truck impact tests.

Program for International Road Congress announced.

The official record. Vol. 9, Nos. 31-35. July 31, August 7, 14, 21, 28, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

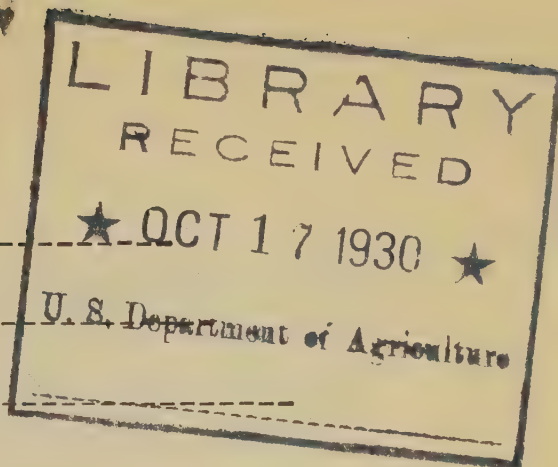
Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

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MONTHLY LIST OF PUBLICATIONS

SEPTEMBER, 1930

Send no remittances to the U. S. Department of Agriculture

A copy of any of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Goose raising. Alfred R. Lee, Bureau of Animal Industry. 14 p., figs. 10. (Farmers' Bulletin 767 F., slightly revised.) Price 5¢.

Cattle-fever ticks and methods of eradication. W. P. Ellenberger and Robert M. Chapin, Bureau of Animal Industry. 27 p., figs. 9. (Farmers' Bulletin 1057 F., revised.) Price 5¢.

Greenhouse tomatoes. James H. Beattie, Bureau of Plant Industry. 25 p., figs. 7. (Farmers' Bulletin 1431 F., revised.) Price 5¢.

Broomcorn growing and handling. John H. Martin, Bureau of Plant Industry, and R. S. Washburn, Bureau of Agricultural Economics. 37 p., figs. 24. (Farmers' Bulletin 1631 F.) Price 10¢.

This bulletin is based upon (1) records of the costs and practices in growing broomcorn obtained from 190 farmers in Illinois, Kansas, and Oklahoma in 1928 and (2) experiments with broomcorn on several field stations of the United States Department of Agriculture in Oklahoma, Texas, New Mexico, and Kansas for the last 20 years.

Surface irrigation in the Eastern States. F. E. Staebner, Bureau of Public Roads. 38 p., figs. 25. (Farmers' Bulletin 1635 F.) Price 10¢.

Explains surface irrigation, which is simpler and less expensive than either spray or subirrigation. The information should be helpful to eastern farmers whose crops have suffered from drought.

Game laws for the season 1930-31. Frank L. Earnshaw and Frank G. Grimes, Bureau of Biological Survey. 46 p. (Farmers' Bulletin 1647 F.) Price 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Construction and packing of an egg case. George H. Powers, Bureau of Agricultural Economics. 8 p., figs. 8. (Leaflet No. 64 L.) Price 5¢.

Contains instructions for making the form for constructing a standard egg case and also tells how to pack eggs in a standard case.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Toxic effect of St. Johnswort (*Hypericum perforatum*) on cattle and sheep. C. Dwight Marsh and A. B. Clawson, Bureau of Animal Industry. 24 p., figs. 4. (Technical Bulletin 202 T.) Price 5¢.

Although the plant is evidently toxic, the experiments described in this bulletin show that deaths rarely occur. Ordinarily the poisonous effects are not very pronounced, and when so, only after a large dosage. Dermatitis was produced in only a few cases and in those was slight.

The determination of hour control for adequate fire protection in the major cover types of the California pine region. S. B. Shaw and E. I. Kotok, Forest Service. 47 p., figs. 32. (Technical Bulletin 209 T.) Price 10¢.

For foresters and students. Explains the distribution of resources in men, money, apparatus, and transportation which affords best fire protection for the national forests. The analyses are the result of experiences with 4,283 fires in California.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Growing trees for forest planting in Montana and Idaho. D. S. Olson. Forest Service. 92 p., figs. 48. (Circular 120 C.) Price 25¢.

Prepared for the purpose of giving information essential to the selection and development of nursery sites. Explains such important phases of the work as soil management, arrangement and care of seed beds, transplanting, and preparation of stock for shipment.

Cooperative marketing and purchasing, 1920-1930. R. H. Elsworth, Bureau of Agricultural Economics. 56 p., figs. 16. (Circular 121 C.) Price 10¢.

Includes data based on a count of the active farmers' business associations in 1930, with estimates as to the membership in 1928 for each of the States in the various commodity groups and estimates on the same basis for the business transactions for the 1927-28 marketing season.

Experiments in the use of fertilizers in growing forest planting material at the Save-nac nursery. W. G. Wahlenberg, Forest Service. 38 p., figs. 11. (Circular 125 C.) Price 10¢.

The experiments described fall into three separate groups, each emphasizing a fairly distinct aim: (1) Improvement of the planting stock; (2) stimulation of the rate of seedling growth; and (3) maintenance of soil productivity. This publication describes the results of two years' preliminary experiments.

Pathological conditions ascribed to nematodes in poultry. Eloise B. Cram, Bureau of Animal Industry. 11 p., figs. 6. (Circular 126 C.) Price 5¢.

Intended for zoologists, poultry specialists, and veterinarians who deal with parasitic diseases of poultry. The conditions ascribed to nematodes are classified according to clinical symptoms and pathological changes of affected birds.

Grain drying at a country elevator. W. M. Hurst, Bureau of Public Roads, and R. H. Black, Bureau of Agricultural Economics. 15 p., figs. 4. (Circular 127 C.) Price 5¢.

Information based upon investigations conducted by the department during the 1929 harvest season to determine some of the economic and mechanical factors involved in the artificial drying of grain with a small-sized commercial drier located at a country elevator. Data were secured regarding the power, labor, and fuel requirements, and the market values of the grain before and after drying.

Handling livestock during drought. E. W. Sheets and William Jackson, Bureau of Animal Industry. 12 p. (Circular 140 C.) Price 5¢.

Intended for livestock owners in drought-stricken areas who may need special information on feeding and handling animals under such adverse conditions. Discusses feed and water requirements and methods of handling livestock most profitably after, as well as during, periods of drought. It also suggests means of reducing, by suitable preparations, losses from future droughts.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The results of physical tests of road-building rock. D. O. Woolf, Bureau of Public Roads. 148 p. (Miscellaneous Publication 76 MP.) Price 25¢.

Lists the results of tests of some 6,000 samples of ledge rock from practically all parts of the country used in the construction of modern highways. Contains a short discourse on the physical properties of road-building rock, the types of rock tested, and the methods employed.

American medicinal plants of commercial importance. A. F. Sievers, Bureau of Plant Industry. 74 p., 128 figs. (Miscellaneous Publication 77 MP.) Price 30¢.

The purpose of this publication is to assist those interested in collecting medicinal plants to identify such plants and to furnish other useful information in connection with the work.

Summary of State and territorial plant quarantines affecting interstate shipments. Maude A. Thompson, Plant Quarantine and Control Administration. 128 p. (Miscellaneous Publication 80 MP.) Price 20¢.

Prepared for the use of nurserymen, State quarantine officials, and others concerned in the observance of such regulations.

Directory of field activities of the Bureau of Entomology. 56 p., 1 map. (Miscellaneous Publication 83 MP.) Price 10¢.

A complete list of the field laboratories of the Bureau of Entomology, giving detailed directions for reaching each laboratory, the post-office address of the person in charge, and a brief statement concerning the investigations carried on.

Profits from farm woods. W. R. Mattoon, Forest Service. 18 p., figs. 12. (Miscellaneous Publication 87 MP.) Price 5¢.

Contains stories believed to be typical of the results and money returns possible to farmers under average conditions in the various regions. Although estimates of the amount of timber that can be grown and of its money value are helpful, these specific examples of good practice in cutting and marketing products from the farm woods are far more informative and valuable.

The United States Department of Agriculture: Its growth, structure, and functions. M. S. Eisenhower and A. P. Chew, Office of Information. 147 p. (Miscellaneous Publication 88 MP.) Price 25¢.

Explains the scope and purpose of the research, regulatory, service, educational, and other work performed by the department. It charts the various bureaus and offices so that the reader may tell at a glance the functions of each unit. A brief history of the department is included.

Feeding wheat to livestock. Prepared by Bureaus of Agricultural Economics, Animal Industry, and Dairy Industry. 6 p. (Miscellaneous Publication 96 MP.) Price 5¢.

A statement of the value of wheat as a feed and a comparison of the prices of wheat, corn, and other grains in relation to their feeding values, in order to help farmers to decide when it is profitable to use wheat as a livestock feed.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Indiana, Hancock County. (1925, No. 23.) Price, 20¢.

Nebraska, Keith County. (1926, No. 14.) Price, 20¢.

Wisconsin, Sauk County. (1925, No. 29.) Price, 25¢.

Wyoming, The Wheatland Area. (1926, No. 13.) Price, 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Index to service and regulatory announcements, 1929. Plant Quarantine and Control Administration. 4 p. (S. R. A. P. Q. C. A. Index, 1929.) Price 5¢.

Mediterranean fruit-fly quarantine. (Revision of Regulations.) 9 p. (P. Q. C. A.—Q. 68.) Price 5¢.

Migratory-bird treaty-act regulations and text of Federal laws relating to game and birds. 18 p. (S. R. A.—B. S. 72.) Price, 5¢.

Notices of judgment under the food and drugs act. N. J. F. D. 16926-16950, pp. 583-603.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 9. September 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 5. May, 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Crops and markets. Vol. 7, No. 8. August, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 63, No. 2, August, 1930; No. 3, August, 1930, abstract number. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 1, No. 5, September, 1930. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

——— Vol. 40, Jan. 1–June 15, 1930. Index. Price, 5¢.

——— Vol. 41, No. 4. August 15, 1930. Illus.

CONTENTS:

Corticium centrifugum, a heterothallic pathogene of apples. (G-731) L. F. Butler. Some conditions affecting the storage of peppers. (G-730) John I. Lauritzen and

R. C. Wright.

Experimental studies on the growth and development of strawberry plants. (G-732) George M. Darrow.

A study of some unproductive cherry trees in California. (G-734) C. F. Kinman.

The effect of hydrogen-ion concentration on the toxicity of nicotine, pyridine, and methylpyrrolidine to mosquito larvae. (K-212) Charles H. Richardson and Harold H. Shepard.

——— Vol. 41, No. 5. September 1, 1930. Illus.

CONTENTS:

Effect of certain climatic factors on the diameter growth of longleaf pine in western Florida. (F-51). J. Elton Lodewick.

Parasites of the Oriental peach moth, *Laspeyresia molesta* Busck, in North America (K-213). G. J. Haeussler.

Short branch, another character of cotton showing monohybrid inheritance (G-740). Thomas H. Kearney.

Relation between moisture content of the wood and blue stain in loblolly pine (G-741). Reginald H. Colley and Caroline T. Rumbold.

The adsorption of the anions of acid dyes by soil colloids (H-18). J. G. Smith and P. L. Gile.

The relative resistance of varieties and species of citrus to *Pythiacystis gummosis* and other bark diseases (Calif.-55). L. J. Klotz and H. S. Fawcett.

Monthly weather review. Vol. 58, No. 5. May; No. 6, June, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

Public roads. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year foreign.¹

——— Vol. 11, No. 6. August, 1930. Illus.

CONTENTS:

Freezing and thawing of soils as factors in the destruction of road pavements.

The official record. Vol. 9, Nos. 36–39. September 4, 11, 18, 25, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 35–38. September 2, 9, 16, 23. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

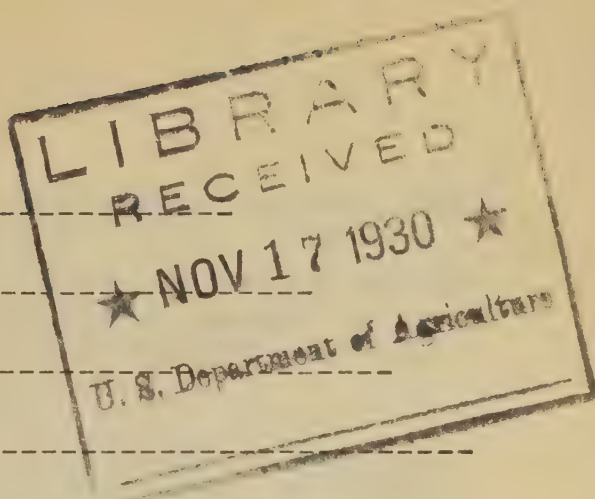
¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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United States Department of Agriculture MONTHLY LIST OF PUBLICATIONS

OCTOBER, 1930

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Everbearing strawberries. George M. Darrow, Bureau of Plant Industry. 14 p., illus. (Farmers' Bulletin 901 F., rev.) Price 5¢.

Breeds of light horses. H. H. Reese, Bureau of Animal Industry. 13 p., illus. (Farmers' Bulletin 952 F., rev.) Price 5¢.

Standard breeds and varieties of chickens. II. Continental European, Oriental, Game, Ornamental, and Miscellaneous classes. M. A. Jull, Bureau of Animal Industry. 30 pl., illus. (Farmers' Bulletin 1507 F., rev.) Price 10¢.

Protection of buildings and farm property from lightning. Roy N. Covert, Weather Bureau. 33 p., illus. (Farmers' Bulletin 1512 F., rev.) Price 10¢.

Rabbit skins for fur. D. Monroe Green, Bureau of Biological Survey. 14 p., illus. (Farmers' Bulletin 1519 F., rev.) Price, 5¢.

Window curtaining. Bess M. Viemont, Bureau of Home Economics. 30 p., illus. (Farmers' Bulletin 1633 F.) Price 10¢.

Farm bulk storage for small grains. M. A. R. Kelley, Bureau of Public Roads, and E. G. Boerner, Bureau of Agricultural Economics. 46 p., illus. (Farmers' Bulletin 1636 F.) Price 10¢.

Fall-sown oat production. T. R. Stanton and F. A. Coffman, Bureau of Plant Industry. 20 p., illus. (Farmers' Bulletin 1640 F.) Price 5¢.

Chestnut blight. G. F. Gravatt and L. S. Gill, Bureau of Plant Industry. 18 p., illus. (Farmers' Bulletin 1641 F.) Price 10¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Play suits for winter. Bess M. Viemont, Bureau of Home Economics. 8 p., illus. (Leaflet 54 L., rev.) Price 5¢.

Small trees wasteful to cut for saw timber. W. W. Ashe, Forest Service. 5 p., illus. (Leaflet 55 L., rev.) Price 5¢.

- Why some wood surfaces hold paint longer than others. [4] p. (Leaflet 62 L.) Price 5¢.
- Beef grading and stamping service. 8 p. (Leaflet 67 L.) Price, 5¢.
- Roadside markets. Caroline B. Sherman, Bureau of Agricultural Economics. 6 p., illus. (Leaflet 68 L.) Price 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

- Technical Bulletins 151-175. Title page and table of contents. 12 p. Price, 5¢.
- The citrus rust mite and its control. W. W. Yothers and Arthur C. Mason, Bureau of Entomology. 56 p., illus. (Technical Bulletin 176 T.) Price 15¢.
- Life history and habits of the plum curculio in the Georgia peach belt. Oliver I. Snapp, Bureau of Entomology. 91 p., illus. (Technical Bulletin 188 T.) Price 25¢.
- Economic status of drainage districts in the South in 1926. Roger D. Marsden, Bureau of Public Roads, and R. P. Teele, Bureau of Agricultural Economics. 48 p. (Technical Bulletin 194 T.) Price 10¢.
- The canning quality of certain commercially important eastern peaches. Charles W. Culpepper and Joseph S. Caldwell, Bureau of Plant Industry. 47 p. (Technical Bulletin 196 T.) Price 10¢.
- Trading in corn futures. G. Wright Hoffman, Grain Futures Administration. 82 p., illus. (Technical Bulletin 199 T.) Price 20¢.
- Irrigation requirements of the arid and semiarid lands of the Columbia River basin. Samuel Fortier and Arthur A. Young, Bureau of Public Roads. 56 p., illus. (Technical Bulletin 200 T.) Price 15¢.
- Beef production from purebred grade and native calves. Arthur T. Semple, Bureau of Animal Industry, and H. E. Dvorachek, University of Arkansas. 16 p., illus. (Technical Bulletin 203 T.) Price 5¢.
- Gluing wood in aircraft manufacture. T. R. Truax, Forest Service. 58 p., illus. (Technical Bulletin 205 T.) Price 25¢.
- Seed treatment for controlling covered smut of barley. R. W. Leukel, Bureau of Plant Industry. 23 p., illus. (Technical Bulletin 207 T.) Price 15¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

- Some mushroom diseases and their carriers. Vera K. Charles, Bureau of Plant Industry, and C. H. Popenoe, Bureau of Entomology. 10 p., illus. (Circular 27 C., rev.) Price 5¢.
- Parasitism of the Mediterranean fruit fly in Hawaii, 1922-1924. H. F. Willard, Plant Quarantine and Control Administration, and T. L. Bissell, Bureau of Entomology. 12 p. (Circular 109 C., corrected edition.) Price 5¢.
- Daffodils. David Griffiths, Bureau of Plant Industry. 74 p., illus. (Circular 122 C.) Price 25¢.
- Rate of growth of second-growth southern pines in full stands. R. D. Forbes and Donald Bruce, Forest Service. 77 p., illus. (Circular 124 C.) Price 15¢.
- Effectiveness of moisture-excluding coatings on wood. George M. Hunt, Forest Service. 28 p., illus. (Circular 128 C.) Price 10¢.
- Utilization of black locust. John B. Cuno, Forest Service. 20 p., illus. (Circular 131 C.) Price 10¢.

MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the department. The series closed with No. 110 and is replaced by the Miscellaneous Publications series.

- The cow tester's handbook. J. C. McDowell. Revised by J. E. Dorman and J. B. Parker. 20 p., illus. (Miscellaneous Circular 26 MC., rev.) Price 10¢.

Federal legislation and regulations relating to the improvement of Federal-aid roads and national-forest roads and trails, flood relief, and miscellaneous matters. Bureau of Public Roads. 50 p. (Miscellaneous Circular 109 MC., rev.) Price 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Lantern slides and film strips of the United States Department of Agriculture. 14 p. (Miscellaneous Publication 72 MP., rev.) Price 5¢.

Horticultural exhibitions. Furman Lloyd Mulford, Bureau of Plant Industry. 37 p., illus. (Miscellaneous Publication 85 MP.) Price 10¢.

Outlines for studies of mammalian life histories. Walter P. Taylor, Bureau of Biological Survey. 12 p. (Miscellaneous Publication 86 MP.) Price, 5¢.

Directory of officials and organizations concerned with the protection of birds and game. Talbott Denmead and Frank G. Grimes, Bureau of Biological Survey. 13 p. (Miscellaneous Publication 92 MP.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Idaho, Bear Lake Valley area. (1926, No. 15.) Price, 20¢.

Michigan, Menominee County. (1925, No. 31.) Price, 30¢.

Michigan, Jackson County. (1926, No. 17.) Price, 15¢.

Missouri, Polk County. (1926, No. 18.) Price, 20¢.

North Carolina, Lenoir County. (1927, No. 2.) Price, 15¢.

Oregon, Grande Ronde Valley area. (1926, No. 16.) Price, 25¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Packers and stockyards act, 1921. Bureau of Animal Industry. 59 p. (B. A. I. Order 323.)

Notices of judgment under the food and drugs act. Pp. 605-615. (N. J., F. D. 16951-16975.) ; pp. 617-628. (N. J., F. D. 16976-17000.) Price, 5¢ each.

Notices of judgment under the insecticide act. Pp. 65-78. (N. J., I. F. 1176-1190.) Price, 5¢.

Modification of European corn-borer quarantine regulations. 3 p. (P. Q. C. A.—Q. 43, rev., effective August 20.) Price, 5¢.

Modification of Mediterranean fruit-fly quarantine regulations. 2 p. (P. Q. C. A.—Q. 68, amendt. effective October 15, 1930.) Price, 5¢.

Regulations of the Secretary of Agriculture governing the inspection, grading, and certification of tobacco. 6 p. (S. R. A.—B. A. E. 120.) Price, 5¢.

Rules and regulations of the Secretary of Agriculture for carrying out the provisions of the perishable agricultural commodities act, 1930. (46 Stat. 531.) 19 p. (S. R. A.—B. A. E. 121.) Price, 5¢.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry for August, 1930. (S. R. A.—B. A. I. 280.) pp. 65-72. Price, 5¢; for September, 1930. (S. R. A.—B. A. I. 281.) pp. 73-83. Price 5¢ each.

Laws and regulations for the administration of Federal wild-life refuges. 6 p. (S. R. A.—B. S. 73.) Price, 5¢.

Adulteration and misbranding of seed of Kentucky bluegrass. 2 p. (S. R. A.—B. P. I. 16.) Price, 5¢.

OTHER PUBLICATIONS

- Papaya culture in Hawaii.** W. T. Pope, Hawaii Agricultural Experiment Station, Honolulu. 40 p., illus. (Hawaii Bulletin 61.) Price, 25¢.
- Report of the Porto Rico Agricultural Experiment Station, 1929.** 29 p., illus. Price, 5¢.
- Report on the agricultural experiment stations, 1929.** W. H. Beal and H. M. Steece, Office of Experiment Stations. 100 p. Price, 15¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation.** Vol. 14, No. 10, October 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

- Climatological data.** Vol. 17, No. 6, June; No. 7, July, 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

- Crops and markets.** Vol. 7, No. 9, September, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

- Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

- Experiment station record.** Vol. 63, No. 4, September, 1930; No. 5, September, 1930. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

- Extension service review.** Vol. 1, No. 6, October, 1930. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

- Forest worker.** Vol. 6, No. 5, September, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

- Journal of Agricultural Research.** Vol. 40, No. 6, September 15; No. 7, October 1; No. 8, October 15, 1930. Illus. Price, 20¢ a copy; \$4 a year, domestic, \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

- Monthly weather review.** Vol. 58, No. 7, July, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

- Public roads.** Vol. 11, No. 7. September, 1930. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year; foreign.¹

- The official record.** Vol. 9, Nos. 40-44, October 2, 9, 16, 23, 30, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

- Weekly weather and crop bulletin.** Nos. 39-43, September 30, October 7, 14, 21, 28. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

NOVEMBER, 1930

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A copy of any of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The making and feeding of silage. T. E. Woodward and J. B. McNulty, Bureau of Dairy Industry; and George M. Rommel, E. W. Sheets, and F. R. Marshall, Bureau of Animal Industry. 26 p., illus. (Farmers' Bulletin 578 F., rev.) Price, 5¢.

Diseases of apples in storage. Charles Brooks, J. S. Cooley, and D. F. Fisher, Bureau of Plant Industry. 20 p., illus. (Farmers' Bulletin 1160 F., rev.) Price, 5¢.

Blackleg: Its nature, cause, and prevention. John R. Mohler, Bureau of Animal Industry. 13 p., illus. (Farmers' Bulletin 1355 F., rev.) Price, 5¢.

Castration of hogs. S. S. Buckley, Bureau of Animal Industry. 6 p., illus. (Farmers' Bulletin 1357 F., rev.) Price, 5¢.

Watermelons. W. R. Beattie, Bureau of Plant Industry. 22 p., illus. (Farmers' Bulletin 1394 F., rev.) Price, 5¢.

Currants and gooseberries: Their culture and relation to white-pine blister rust. George M. Darrow and S. B. Detwiler, Bureau of Plant Industry, and others. 42 p., illus. (Farmers' Bulletin 1398 F., rev.) Price, 10¢.

Turkey raising. Morley A. Jull and Alfred R. Lee, Bureau of Animal Industry. 22 p., illus. (Farmers' Bulletin 1409 F., rev.) Price, 5¢.

Farm plumbing. George M. Warren, Bureau of Public Roads. 34 p., illus. (Farmers' Bulletin 1426 F., rev.) Price, 10¢.

Arbor Day: Its purpose and observance. Prepared by the Forest Service. 22 p., illus. (Farmers' Bulletin 1492 F., rev.) Price, 5¢.

The common barberry and black stem rust. E. C. Stakman, Agent, and Donald G. Fletcher, Bureau of Plant Industry. 29 p., illus. (Farmers' Bulletin 1544 F., rev.) Price, 5¢.

Sugar-beet culture in the humid area of the United States. J. G. Lill, Michigan Agricultural Experiment Station. 32 p., illus. (Farmers' Bulletin 1637 F.) Price, 10¢.

Potato production in the far Western States. William Stuart, Bureau of Plant Industry. 17 p., illus. (Farmers' Bulletin 1639.) Price, 5¢.

Fire safeguards for the farm. V. N. Valgren, Bureau of Agricultural Economics; Harry E. Roethe, Bureau of Chemistry and Soils; and M. C. Betts, Bureau of Public Roads. 22 p., illus. (Farmers' Bulletin 1643 F.) Price, 5¢.

- Asparagus culture.** Ross C. Thompson, Bureau of Plant Industry. 25 p., illus. (Farmers' Bulletin 1646 F.) Price, 5¢.
- Game laws for the season 1930-31: A summary of Federal, State, and provincial statutes.** 46 p. (Farmers' Bulletin 1647 F.) Price, 5¢.
- Fur laws for the season 1930-31.** Frank G. Grimes, Bureau of Biological Survey. 30 p. (Farmers' Bulletin 1648 F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

- Raising the dairy heifer.** J. B. Shepherd, Bureau of Dairy Industry. 5 p., illus. (Leaflet 14 L., rev.) Price, 5¢.
- Lamb as you like it.** Lucy M. Alexander, Bureau of Home Economics and Bureau of Animal Industry, and Fanny Walker Yeatman, Bureau of Home Economics. 8 p., illus. (Leaflet 28 L., rev.) Price, 5¢.
- Preservation of leather bookbindings.** R. W. Frey and F. P. Veitch, Bureau of Chemistry and Soils. 8 p., illus. (Leaflet 69 L.) Price, 5¢.
- Home mixing of fertilizers.** C. C. Fletcher, Bureau of Chemistry and Soils. 8 p., illus. (Leaflet 70 L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

- Milling and baking qualities of world wheats.** D. A. Coleman, Owen L. Dawson, Alfred Christie, H. B. Dixon, H. C. Fellows, J. F. Hayes, Elwood Hoffecker, J. H. Shollenberger, and W. K. Marshall, Bureau of Agricultural Economics. 224 p. (Technical Bulletin 197 T.) Price, 35¢.
- The yield of Douglas fir in the Pacific Northwest.** Richard E. McArdle and Walter H. Meyer, Forest Service. 64 p., illus. (Technical Bulletin 201 T.) Price, 20¢.
- Timber growing and logging and turpentining practices in the southern pine region.** R. D. Forbes, formerly at Southern Forest Experiment Station, and R. Y. Stuart, Forest Service. 115 p., illus. (Technical Bulletin 204 T.) Price, 30¢.
- Beef from calves fed grain before and after weaning.** W. H. Black, United States Department of Agriculture, and E. A. Trowbridge, University of Missouri. 24 p., illus. (Technical Bulletin 208 T.) Price, 10¢.
- Some methods for detecting differences in soil organic matter.** Edmund C. Shorey, Bureau of Chemistry and Soils. 28 p. (Technical Bulletin 211 T.) Price, 5¢.
- Mechanical analysis of finely divided natural phosphates.** Lyle T. Alexander and K. D. Jacob, Bureau of Chemistry and Soils. 24 p., illus. (Technical Bulletin 212 T.) Price, 5¢.
- The physical and chemical characteristics of certain American peat profiles.** Irvin C. Feustel and Horace G. Byers, Bureau of Chemistry and Soils. 27 p., illus. (Technical Bulletin 214 T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

- Blemishes and discolorations of market onions.** G. B. Ramsey, Bureau of Plant Industry. 4 p., illus. (Circular 135 C.) Price, 5¢.
- The Gehl laboratory rice-scouring device.** R. M. Gehl, Bureau of Agricultural Economics. 12 p., illus. (Circular 136 C.) Price, 5¢.
- Development and use of baking powder and baking chemicals.** L. H. Bailey, Bureau of Chemistry and Soils. 16 p. (Circular 138 C.) Price, 5¢.
- Method and procedure of soil analysis used in the division of soil chemistry and physics.** W. O. Robinson, Bureau of Chemistry and Soils. 20 p. (Circular 139 C.) Price, 5¢.
- The farm real estate situation, 1929-30.** E. H. Wiecking and B. R. Stauber, Bureau of Agricultural Economics. 70 p., illus. (Circular 150 C.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Film strips of the U. S. Department of Agriculture. Folder. 7 p. (Miscellaneous Publication 91 MP.) Price, 5¢.

List of technical workers in the Department of Agriculture, and outline of Department functions, 1930. Compiled in the Office of Personnel and Business Administration. 132 p. (Miscellaneous Publication 93 MP.) Price, 20¢.

Seed treatment reduces loss from plant diseases. F. C. Meier, Bureau of Plant Industry. Folder. (Miscellaneous Publication 94 MP.) Price, 5¢.

Land utilization and the farm problem. L. C. Gray and O. E. Baker, Bureau of Agricultural Economics. 54 p., illus. (Miscellaneous Publication 97 MP.) Price, 25¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

Arizona, The Buckeye-Beardsley area. (1927, No. 3.) Price, 20¢.

Ohio, Washington County. (1926, No. 19.) Price, 15¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Index to Service and Regulatory Announcements, Plant Quarantine and Control Administration, 1929. 4 p.

Rules and regulations of the Secretary of Agriculture for carrying out the provisions of the perishable agricultural commodities act, 1930. (46 Stat. 531.) (S. R. A.—B. A. E. 121.) 19 p. Price, 5¢.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, for October, 1930. (S. R. A.—B. A. I. 282.) pp. 85-92. Price, 5¢.

Modification of Mediterranean fruit-fly quarantine regulations. 3 p. (P. Q. C. A.—Q 68, Amendment No. 2, effective October 15, 1930.) Price, 5¢.

Modification of Mediterranean fruit-fly quarantine regulations. 1 p. (P. Q. C. A.—Q 68, Amendment No. 3, effective November 5, 1930.) Price, 5¢.

Notice of lifting of Mediterranean fruit-fly quarantine. 1 p. (P. Q. C. A.—Lifting Q 68, effective November 15, 1930.) Price, 5¢.

Notices of judgment under the food and drugs act. Food and Drug Administration. N. J., F. D. 17001-17025, 11 p.; 17026-17050, pp. 13-23. Price, 5¢ each.

OTHER PUBLICATIONS

Aerological code (pilot balloons), 1930. W. B. No. 1017. 18 p., illus. Price, 65¢. *For sale only.*

Instructions for making aerological observations by means of kites, airplanes, sounding balloons, limited-height sounding balloons, free-rising captive balloons, and ceiling balloons. 94 p., illus. (Circular P.) Price, 40¢. *For sale only.*

Plant material introduced by the Office of Foreign Plant Introduction, Bureau of Plant Industry, April 1 to June 30, 1929 (Nos. 80019-80810). Inventory 99. 46 p. Price, 10¢.

Report of the Chief of the Bureau of Biological Survey. Paul G. Redington, Bureau of Biological Survey. 56 p. Price, 10¢.

Report of the Chief of the Bureau of Home Economics. Louise Stanley, Bureau of Home Economics. 13 p. Price, 5¢.

Report of the Chief of the Bureau of Public Roads. Thomas H. MacDonald, Bureau of Public Roads. 92 p. November, 1930. Price, 10¢.

Report of the Chief of the Food and Drug Administration. W. G. Campbell, Food and Drug Administration. 25 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 11, November 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 8, August, 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 7, No. 10, October, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 63, No. 6, October, 1930; Abstract number. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 1, No. 7, November, 1930. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of Agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

— Vol. 41, No. 9. November 1, 1930. Illus.

CONTENTS:

A study of the relation between actual and normal yields of immature Douglas fir forests. (F-53.) Walter H. Meyer.

Studies of vaccination during calfhood to prevent bovine infectious abortion (A-141.) J. M. Buck.

The catalase content of the Colorado potato beetle during metamorphosis. (K-214.) David E. Fink. Price, 20¢.

Monthly weather review. Vol. 58, No. 8, August, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 11, No. 8, October, 1930. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 9, Nos. 45-48, November 6, 13, 20, 27, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 44-47, November 4, 11, 18, 25, 1930. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Cabbage. L. C. Corbett, Bureau of Plant Industry. 18 p., illus. (Farmers' Bulletin 433F., rev.) Price, 5¢.

Tobacco culture. W. W. Garner, Bureau of Plant Industry. 22 p., illus. (Farmers' Bulletin 571F., rev.) Price, 5¢.

Potato storage and storage houses. William Stuart, Bureau of Plant Industry. 22 p., illus. (Farmers' Bulletin 847F., rev.) Price, 5¢.

Tuberculosis in livestock: Detection, control, and eradication. John A. Kiernan and Alexander E. Wight, Bureau of Animal Industry. 21 p., illus. (Farmers' Bulletin 1069F., rev.) Price 10¢.

Growing and utilizing sorghums for forage. H. N. Vinall and R. E. Getty, Bureau of Plant Industry. 32 p., illus. (Farmers' Bulletin 1158F., rev.) Price, 5¢.

Tomatoes for canning and manufacturing. James H. Beattie, Bureau of Plant Industry. 17 p., illus. (Farmers' Bulletin 1233F., rev.) Price, 5¢.

Permanent fruit and vegetable gardens. W. R. Beattie, Bureau of Plant Industry, and C. P. Close, Office of Cooperative Extension Work. 18 p., illus. (Farmers' Bulletin 1242F., rev.) Price, 5¢.

American moles as agricultural pests and as fur producers. Theo. H. Scheffer, Bureau of Biological Survey. 21 p., illus. (Farmers' Bulletin 1247F., rev.) Price, 5¢.

Home tanning of leather and small fur skins. R. W. Frey, I. D. Clarke, and F. P. Veitch, Bureau of Chemistry and Soils. 28 p., illus. (Farmers' Bulletin 1334F., rev.) Price, 5¢.

Citrus fruit growing in the Southwest. A. D. Shamel, C. S. Pomeroy, and R. E. Caryl, Bureau of Plant Industry. 46 p., illus. (Farmers' Bulletin 1447F., rev.) Price, 10¢.

The gipsy moth and the brown-tail moth. A. F. Burgess, Plant Quarantine and Control Administration. 33 p., illus. (Farmers' Bulletin 1623F.) Price, 10¢.

Growing sweet corn for the cannery. J. H. Beattie, Bureau of Plant Industry. 22 p., illus. (Farmers' Bulletin 1634F.) Price, 10¢.

Construction of chimneys and fireplaces. Division of agricultural engineering, Bureau of Public Roads. 18 p., illus. (Farmers' Bulletin 1649F.) Price, 5¢.

Flaxseed production by power farming methods in the Northern Great Plains. A. C. Dillman, Bureau of Plant Industry, and E. A. Starch, Montana Agricultural Experiment Station. 17 p., illus. (Farmers' Bulletin 1650F.) Price 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Fertilizers for pecan soils. J. J. Skinner, Bureau of Chemistry and Soils. 8 p., illus. (Leaflet 71L.) Price, 5¢.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Vesicular stomatitis of horses and cattle. John R. Mohler, Bureau of Animal Industry. 10 pp. (Department Bulletin 632D., rev.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Experiments on the processing and storing of Deglet Noor dates in California. A. F. Sievers and W. R. Barger, Bureau of Plant Industry. 24 p., illus. (Technical Bulletin 193T.) Price, 15¢.

A biological study of the *Trichogramma minutum* Riley as an egg parasite of the oriental fruit moth. Alvah Peterson, Bureau of Entomology. 22 p., illus. (Technical Bulletin 215T.) Price, 5¢.

Effect of irrigation water on vigor and vitality of seed potatoes. W. C. Edmundson, Bureau of Plant Industry. 7 p., illus. (Technical Bulletin 216T.) Price, 5¢.

Mountain-laurel (*Kalmia latifolia*) and sheep laurel (*Kalmia angustifolia*) as stock-poisoning plants. C. Dwight Marsh and A. B. Clawson. 23 p., illus. (Technical Bulletin 219T.) Price, 10¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Methods of eradicating buckthorn (*Rhamnus*) susceptible to crown rust (*Puccinia coronata*) of oats. S. M. Dietz and L. D. Leach, Bureau of Plant Industry. 16 p., illus. (Circular 133C.) Price, 10¢.

Suggestions for the management of spruce stands in the Northeast. Marinus Westveld, Forest Service. 24 p., illus. (Circular 134C.) Price, 10¢.

Hardiness and yield of winter-wheat varieties. Karl S. Quisenberry and J. Allen Clark, Bureau of Plant Industry. 31 p., illus. (Circular 141C.) Price, 5¢.

Tiphia popillivora Rohwer, a parasite of the Japanese beetle. J. L. King and J. K. Holloway, Bureau of Entomology. 12 p., illus. (Circular 145C.) Price, 10¢.

The spread of cranberry false blossom in the United States. Neil E. Stevens, Bureau of Plant Industry. 19 p., illus. (Circular 147C.) Price, 5¢.

MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the department. The series closed with No. 110 and is replaced by the Miscellaneous Publications series.

What the national forests mean to the intermountain region. Prepared by the Intermountain Region of the United States Forest Service. 22 p., illus. (Miscellaneous Circular 47MC., Rev.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Cotton or weevils. J. L. Webb, Bureau of Entomology, and F. A. Merrill, Extension Service. 17 p., illus. (Miscellaneous Publication 35MP., rev.) Price, 10¢.

A bibliography of the history of agriculture in the United States. Everett E. Edwards, Bureau of Agricultural Economics. 307 p. (Miscellaneous Publication 84MP.) Price, 45¢.

Classified list of projects of the agricultural experiment stations, 1930. Compiled in the Office of Experiment Stations. 252 p. (Miscellaneous Publication 89MP.) Price, 35¢.

Forest and range resources of Utah: Their protection and use. Prepared by the Forest Service Intermountain Region, in cooperation with Utah Department of Public Instruction. 102 p., illus. (Miscellaneous Publication 90MP.) Price, 30¢.

The agricultural outlook for the Southern States, 1930-31. Prepared by the staff of the Bureau of Agricultural Economics, assisted by representatives of the agricultural colleges and extension services of the southern States and the Federal Farm Board. 56 p. (Miscellaneous Publication 102MP.) Price, 10¢.

The world cotton situation, with outlook for 1931-32 and the long-time outlook for southern agriculture. Prepared by the Bureau of Agricultural Economics. 76 p., illus. (Miscellaneous Publication 104MP.) Price, 10¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Wheat futures: Volume of trading, open commitments, and prices from January 3, 1921, to December 31, 1929. Prepared by the Grain Futures Administration. 212 p., illus. (Statistical Bulletin 31S.) Price, 35¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Georgia, Lee County. (1927, No. 4.) Price, 15¢.

Texas, Navarro County. (1926, No. 20.) Price 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, for November, 1930. pp. 93-103. (S. R. A. B. A. I. 283.) Price, 5¢.

List of pests intercepted on imported plants and plant products during the calendar year 1929. Plant Quarantine and Control Administration. pp. 249-331. (S. R. A.—P. Q. C. A. [101, Sup. 1].) Price, 10¢.

Modification of pink-bollworm quarantine regulations. 1 p. (PQCA—Q52, effective November 17, 1930.) Price, 5¢.

Notices of Judgment under the food and drugs act. Food and Drug Administration. N. J., F. D. 17051-17075, pp. 25-42; N. J., F. D. 17101-17125, pp. 77-86; N. J., F. D. 17126-17150, pp. 87-98. Price, 5¢ each.

Regulations for the enforcement of the Federal food and drugs act. (Tenth revision.) Food and Drug Administration. 20 p. (S. R. A., F. D. No. 1.) Price, 5¢.

Service and regulatory announcements, April-June, 1930. Plant Quarantine and Control Administration. pp. 33-38. (S. R. A.—P. Q. C. A. 103.) Price, 10¢.

To prevent the spread of splenic, southern, or Texas fever in cattle. Rule 1, Revision 29. Effective December 1, 1930. 3 p. (B. A. I. Order 328.)

OTHER PUBLICATIONS

Cooperative extension work, 1928. Prepared by the Office of Cooperative Extension Work. 134 p., illus. Price, 30¢.

Information for prospective settlers in Alaska. H. W. Alberts, Director. 27 p., illus. (Alaska Circular 1, rev.) Price, 10¢.

Report of the Director of Information. M. S. Eisenhower. 25 p. Price, 5¢.

Report of the Director of the Extension Service. C. W. Warburton. 68 p. Price, 10¢.

Report of the Secretary of Agriculture. Arthur M. Hyde. 96 p. Price, 15¢.

Report of the Solicitor. Elton R. Marshall. 27 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 12, December 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 9, September, 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 7, No. 11, November, 1930. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 62, Index Number. January-June, 1930. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 1, No. 8, December, 1930. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 6, No. 6, November, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Vol. 41, No. 10, November 15; No. 11, December 1, Illus. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

Monthly weather review. Vol. 58, No. 9, September, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 11, No. 9, November; No. 10, December, 1930. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

Snow and ice bulletin. Nos. 1-2, December 17, 24, 1930. 50¢ a year. Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weather Bureau and cooperative stations. As far as practicable all reports of snow and ice are given.

The official record. Vol. 9, Nos. 49-52, December 4, 11, 18, 25, 1930. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 48-51, December 2, 9, 16, 23, 1930. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.